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16 August 2013

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VIA HAND DELIVERY

Ms. Alisa Bentley Commission Secretary Delaware Public Service Commission 861 Silver Lake Blvd., Ste. 100 Dover, DE 19904

Re:

PSC Docket Nos. 13-115

Dear Ms. Bentley:

Enclosed please find the original and ten (10) copies of the Direct Testimony of Staff Witnesses Karl Pavlovic, David Peterson and Stephanie Vavro in the above-captioned docket. Copies have been provided to the service list in the manner indicated.

Respectfully submitted,

James nec. Heddes/des

James McC. Geddes

Enclosures JMcCG:dlb

cc: The Hon. Mark Lawrence (via e-mail & hand delivery; w/encls.)

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Ms. Alisa Bentley 16 August 2013 Page 2

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Stephanie Vavro (via e-mail & U.S. mail; w/encls.)

BUFORE THE PUBLIC SERVICE COMMISSION

IN THE MATTER OF THE APPLICATION OF DELIMARY A ROWER & LIGHT COME ANY FOR AN INCREASE IN ELECTRIC BASE RATES AND MISCELLANGUS TARRED CHANGES INCLED WAS RECHOOS.

PSC DOCKET NO. 13 2

PRINCIPLE TESTEMBER OF

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COMMISSION STAFF

ALLOUIST 16-2013

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF DELAWARE

IN THE MATTER OF THE APPLICATION OF)
DELMARVA POWER & LIGHT COMPANY FOR) PSC DOCKET NO. 13-115
AN INCREASE IN ELECTRIC BASE RATES)
AND MISCELLANEOUS TARIFF CHANGES)
(FILED MARCH 22, 2013))

DIRECT TESTIMONY OF

STEPHANIE L. VAVRO

ON BEHALF OF

COMMISSION STAFF

AUGUST 16, 2013

I. INTRODUCTION

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Q. PLEASE STATE YOUR NAME, OCCUPATION AND BUSINESS ADDRESS.

My name is Stephanie L. Vavro. I am the Principal of Silverpoint Consulting LLC ("Silverpoint"). My business address is 1519 Whispering Woods Circle, Allentown, Pennsylvania 18106.

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Q. WHAT IS YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE IN THE PUBLIC UTILITY FIELD?

11 A. I received a Bachelor's degree in Mathematics, magna cum laude, in 1981 and a
12 Master's degree in Management Science in 1984, both from Lehigh University.

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Since 2009, my firm has completed projects on behalf of state regulatory commissions in areas that include distribution system reliability, mergers, and performance measurement. For example, Silverpoint worked on behalf of the Maryland Public Service Commission in the 2011 investigation of Potomac Electric Power Company (Pepco) reliability and service quality.

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Before forming Silverpoint, I was a senior consultant with The Liberty Consulting Group for nearly ten years, where I worked on numerous utility reviews, typically focusing on quantitative analysis in areas such as capital spending, cost allocation, and performance incentive plans. Prior to that time, I was an energy analyst with Dickstein Shapiro, a Washington, D.C. law firm, where I focused on electric industry restructuring and other energy issues, often supporting efforts such as litigation and regulatory proceedings. My professional background also includes market analysis and strategic planning positions at large industrial and natural

1		resource companies including westmoreland Coal Company and Bennehem
2		Steel.
3		
4	Q.	HAVE YOU PREVIOUSLY PRESENTED TESTIMONY IN PUBLIC
5		UTILITY RATE PROCEEDINGS?
6	A.	No.
7		
8	I	I. TESTIMONY PURPOSE AND SUMMARY OF CONCLUSIONS
9		
10	Q.	ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?
11	Α.	My appearance in this proceeding is on behalf of the Public Service Commission
12		Staff ("Commission Staff").
13	4.	
14	Q.	PLEASE SUMMARIZE THE PURPOSE OF YOUR TESTIMONY IN THIS
15	•	PROCEEDING.
16	A.	Silverpoint was asked to assist the Staff of the Delaware Public Service
17		Commission ("Delaware Commission") in analyzing the reliability-related capital
18		projects associated with Delmarva Power & Light Company's ("Delmarva" or
19		"the Company") application for a rate increase. Specifically, we were asked to
20		consider the necessity of these investments to comply with the service quality
21		standard included in Regulation Docket No. 50, i.e., a maximum System Average
22		Interruption Duration Index ("SAIDI") of 295 minutes.
23		
24		Silverpoint has also been asked to provide context and perspective regarding the
25		Company's Reliability Enhancement Plan ("REP"), the Pepco Holdings, Inc.
26		(PHI) corporate strategic initiative designed to, as its name implies, enhance and
27		improve reliability at PHI's distribution companies.

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2 Q. PLEASE SUMMARIZE YOUR FINDINGS AND CONCLUSIONS.

- A. My findings and conclusions, which I will discuss in more detail in the remainder of this testimony, are as follows:
- There was no engineering necessity for Delmarva's REP reliability-related capital projects in 2011 and 2012 in order to meet minimum Regulation Docket No. 50 standards, or to maintain SAIDI at recent levels.
- Delmarva Delaware's distribution plant additions in 2011 and 2012 were \$51.6

 9 million and \$76.6 million, respectively. Of this \$128.2 million total, \$38.1

 10 million, or approximately 30%, is associated with Delmarva's REP initiative.

 Reliability-related plant additions in 2011 and 2012 totaled \$101.4 million, of which nearly 35% was associated with REP projects.
- The size of Delmarva's five year budget for reliability-related projects under its REP initiative, \$170 million, is quite significant.
- From a policy perspective, there is no clear mandate to support spending for corporate reliability enhancement programs in Delaware as there is in other states.
- Stakeholders have not determined if increased capital spending to improve reliability is warranted or should be paid for by Delaware ratepayers, and as such the Company's request for recovery of REP reliability-related investments is premature.
- It appears that a significant portion of the Company's REP reliability-related plant additions is already included in 2012 year-end rate base.
- At least \$8.6 million of the Company's Construction Work in Progress (CWIP) request is associated with REP projects, as is approximately \$36 million of the Company's proposed Adjustment 26.

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Q. HOW IS THE BALANCE OF YOUR TESTIMONY ORGANIZED?

A. In Section III, I offer some background and perspective on the Delmarva
Delaware Reliability Enhancement Plan to provide the appropriate context for my
later discussion. In Section IV, I discuss Delmarva's reliability-related capital
projects, and in Section V, I discuss rate making treatment of REP reliabilityrelated projects.

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III. DELMARVA RELIABILITY ENHANCEMENT PLAN

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Q. WHAT IS THE ORIGIN OF THE RELIABILITY ENHANCEMENT PLAN, OR REP?

Although PHI now refers to the REP as a strategic corporate initiative, it did not Α. 12 start out that way. Reliability improvement plans were first offered up by Pepco in 13 2010 in response to ever-increasing pressure from regulators in Maryland and the 14 District of Columbia ("DC") about the utility's on-going reliability problems and 15 poor response to storms. 1 By July of that year, Pepco customers had experienced 16 several extremely long outages due to storms, including those associated with 17 "Snowmaggedon," and public sentiment towards the company was decidedly 18 negative. 19

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After receiving numerous customer complaints, on August 12, 2010 the Maryland Public Service Commission ("Maryland Commission") opened a new docket, Case No. 9240, to investigate the reliability of Pepco's electric distribution system and its quality of service. Pepco unveiled its REP for Montgomery County at a press conference two weeks later on August 27th, the same day it filed the plan in

¹ In 2004, Pepco's reliability in Maryland had deteriorated significantly, and the company had up to that point made little progress in reversing the trend.

the Maryland Commission's new docket; a week later, Pepco filed another plan for its Prince George's County service area. By the end of September, Pepco had also filed a separate REP with the District of Columbia Public Service Commission ("DC Commission").2 All three plans were quite similar in design, describing the actions the company intended to take to significantly improve service quality under six reliability programs — enhanced vegetation management, priority feeders, load growth, distribution automation, underground distribution (URD) cable replacement, residential selective and undergrounding/substation improvements.³ Each REP was, however, tailored to the individual service territory, and reflected different specific projects and spending levels under each of the six programs.

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These original REPs were Pepco's attempt to convince regulators, government officials, and the public that it was serious about improving its reliability as evidenced by the magnitude of the company's promised investment — \$256 million in Maryland and \$318 million in DC over five years.

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Q. DID YOU HAVE AN OPPORTUNITY TO REVIEW PEPCO'S RELIABILITY ENHANCEMENT PLANS AT THAT TIME?

Yes. In late 2010, Silverpoint and its partner, First Quartile Consulting, were selected by the Maryland Commission to conduct, as part of Case No. 9240, an investigation into Pepco's reliability and service quality, including its performance during storm-related outages. The scope of that investigation included a review of Pepco's reliability-related capital budgeting and spending, and an assessment of the adequacy of the Maryland REPs.

² By this time, the DC Commission's investigative docket on Pepco reliability had been open for more than a decade.

³ The majority of proposed REP spending, except for enhanced vegetation management, was capital.

The team found that, in the five years leading up to the REP, Pepco Maryland had managed to fund non-discretionary capital projects on its distribution system, but relatively few of what could be considered discretionary ones. Non-discretionary distribution projects, as defined by Pepco, were those needed to maintain reliability, such as required load or customer-driven projects, or to replace aging infrastructure. As such, Pepco's pre-REP capital spending was adequate to maintain reliability at existing levels, but not to substantially improve it.

The projects in each of the six REP reliability programs were specifically designed to enhance reliability. Our main criticism of the REPs at the time was that they had been assembled very quickly without the benefit of detailed analysis. We also noted that all of the reliability-related programs, except for enhanced vegetation management, would likely have little effect on reducing the duration of outages during major events, but were instead aimed more at improving everyday reliability as measured by, for example, SAIDI exclusive of Major Event Days (MEDs).

Q. ARE THE PROJECTS IN DELMARVA'S REP SIMILARLY DESIGNED TO IMPROVE RATHER THAN MAINTAIN RELIABILITY AT EXISTING LEVELS?

Yes. The Company recently reiterated this interpretation of REP capital investment, describing the REP as a way to combine the efforts into one program the commitment that the Company is making to continuously improve its reliability performance.⁴ This distinction between REP capital investments made to enhance reliability and "non-REP" capital investments made to maintain reliability at existing levels is an important one that I will return to later in my testimony.

Α.

A.

Q. WHEN DID THE REP BECOME A CORPORATE STRATEGY?

Within a few months of the release of the Pepco REPs, PHI decided to extend the six reliability-related programs across its entire footprint as a corporate strategic initiative. The writing on the wall was quite clear by late 2010 that PHI would soon need to make significant, measurable reliability improvements across Maryland. The state legislature was expected to pass the Maryland Electric Service Quality and Reliability Act (commonly referred to at the time as the "Pepco bill"), requiring regulators to implement specific reliability standards. By January 2011, the Maryland Commission had opened a rulemaking session and issued draft proposed standards. PHI understood that the new Maryland standards would mandate improvements at Delmarva as well as Pepco. By July 2011, the DC Commission had also implemented new, aggressive standards for System Average Interruption Frequency Index (SAIFI) and SAIDI. Extending the REP programs to cover all of PHI's DC and Maryland utility operations at the time in light of the anticipated new mandates certainly made sense.

Q. WAS THERE CAUSE TO EXTEND THE REP CORPORATE INITIATIVE TO DELMARVA DELAWARE?

⁴ Response to PSC-REL-8.

A. No. Under the standards in Regulation Docket No. 50 originally put in place in 2006, Delmarva Delaware is required to maintain a SAIDI of 295 minutes or less. Those standards have not changed. That fact is evident in PHI's 2012 internal performance report. The company devotes a separate section of the report to discussing its progress in meeting new jurisdictional reliability standards for SAIDI and SAIFI. Individual graphs for Pepco Maryland, Delmarva Maryland, and Pepco DC plot actual 2011 and 2012 performance against newly-mandated SAIFI and SAIDI requirements for 2012 through 2015 in Maryland and for 2013 through 2016 in DC. Graphs for Atlantic City Electric compare actual performance to the company's "proposed" New Jersey requirements. Delmarva Delaware is conspicuously absent from the discussion.

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Despite the fact that, from a policy perspective, there was no clear mandate to necessitate spending for reliability enhancement programs in Delaware, the Company nonetheless opted to pursue the goal of considerably reducing its SAIDI.⁶ That decision comes with a considerable price tag. Delmarva Delaware has spent nearly \$35 million in plant additions for REP reliability-related projects in 2011 and 2012, and plans to spend another \$170 million over the next five years.⁷ This \$170 million figure is, by the way, remarkably close to the \$174 million that Delmarva expects to spend on REP reliability-related plant additions in Maryland over the next five years.⁸

⁵ The December 2012 Performance Metrics and Report, provided as Attachment E to the response to AG-REL-19, pages 11-13.

⁶ Delmarva's projected SAIDI and SAIFI through 2016 under its Delaware REP are shown in the response to PSC-CP-2.

⁷ Responses to AG-REL-2 and AG-REL-3. REP feeder load relief is not included in the total.

⁸ Response to PSC-REL-7. REP feeder load relief is not included in the total.

IV. DELMARVA RELIABILITY-RELATED CAPITAL

2 PROJECTS

Q. PLEASE SUMMARZE DELMARVA'S DELAWARE DISTRIBUTION PLANT ADDITIONS.

The Company's distribution plant additions for the years 2007 through 2012 are summarized in the following chart. Although the focus in this rate case is on 2011 and 2012 additions, I have included years 2007 through 2010 for informational purposes.

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Delmarva Delaware Distribution Plant Capital Additions

Delinarya Delaware Distribution France Capital Mattions											
\$ Millions	2007	2008	2009	2010	2011	2012					
Non-REP											
Customer-driven	\$23.3	\$18.2	\$11.2	\$14.3	\$9.6	\$12.6					
Load	1.4	4.7	13.4	6.4	0.5	0.5					
Reliability	15.7	23.6	25.9	29.0	29.9	37.0					
Total Non-REP	\$40.5	\$46.5	\$50.4	\$49.7	\$40.0	\$50.1					
REP											
Reliability					\$10.3	\$24.2					
Load Relief					1.3	2.3					
Total REP					11.6	26.5					
Total Plant Additions	\$40.5	\$46.5	\$50.4	\$49.7	\$51.6	\$76.6					
Total Reliability-related Plant Additions	\$15.7	\$23.6	\$25.9	\$29.0	\$40.2	\$61.2					

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Source: Response to AG-REL-3, Attachments A and B.

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Delmarva Delaware's total distribution plant additions in 2011 and 2012 were \$51.6 million and \$76.6 million, respectively. Of this \$128.2 million total, \$38.1 million, or approximately 30%, is associated with Delmarva's REP initiative. Reliability-related additions in 2011 and 2012 totaled \$101.4 million, of which nearly 35% was associated with the REP.

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Customer-driven projects are those required by customers, such as new connections and street lights, or by government agencies, such as relocating plant for highway construction projects. Load projects are designed to maintain load-transfer and system continuity, such as installing new feeders or adding substation capacity. Reliability-related projects are designed to either maintain (non-REP) or enhance (REP) distribution system reliability. Replacing a duct bank at a Christiana substation is an example of a 2012 non-REP reliability-related project. Distribution automation work at Christiana substations is an example of an REP project.

During discovery, the Company provided documents that list all of the individual projects that make up each category of REP and non-REP plant additions. The short description provided for each project gave us a general sense of the nature of the work performed.

Q. PLEASE CLARIFY THE DISTINCTION BETWEEN REP AND NON-PLANT ADDITIONS.

A. As I noted earlier, there is a definite distinction between REP and non-REP projects. Non-REP projects are those completed in order to maintain reliability. The Company designates capital projects aimed at improving its reliability performance as REP projects. The categories of reliability-related capital projects in Delmarva's REP are priority feeders, URD cable upgrades, distribution automation, feeder reliability improvements, conversions, and substation reliability improvements. As a general matter, the type of work performed in an REP project would not otherwise be performed as a non-REP project in a future

⁹ All capital additions in 2007 to 2010, before the REP initiative began, are considered non-REP projects.

¹⁰ The categories of reliability programs have changed slightly from the original Pepco REPs.

year.¹¹ Although these projects enhance system performance, they are not required to maintain the status quo.

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Q. WHAT WAS THE PURPOSE OF YOUR REVIEW?

A. Silverpoint was asked by Commission Staff to examine REP and non-REP reliability-related capital projects for the years 2011 and 2012, which are most relevant to the Company's current rate base request. We were asked to consider whether the level of spending was reasonable, and whether the investments were necessary to comply with the service quality standards included in Regulation Docket No. 50, *i.e.*, a maximum SAIDI of 295 minutes.

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Q. DID YOU CONSIDER THE NECESSITY OF THE COMPANY'S SPENDING FOR REP LOAD RELIEF PROJECTS?

Not at this time. As shown in the above chart, the Company's non-REP spending Α. 14 for load projects dropped off starting in 2011. It appears that Delmarva moved 15 most of its traditional load work, specifically primary feeder load relief, under the 16 REP umbrella. We do not have enough information about these projects to 17 determine if they were truly meant to enhance versus maintain reliability. I expect 18 that the Company will be able to clarify that point. In the meantime, we have 19 limited the discussion of REP projects to those that the Company has specifically 20 designated as reliability-related. We take no position at this time about the 21 necessity of REP load relief projects, but reserve the right to do so at a later time. 22

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Q. WHAT DID YOU CONCLUDE ABOUT THE COMPANY'S NON-REP RELIABILTY-RELATED PLANT ADDITIONS FOR THE YEARS 2011 AND 2012?

¹¹ Response to PSC-REL-10.

A. The levels of capital additions for 2011 and 2012 were reasonably consistent with those of recent prior years, recognizing that some variability in yearly spending is normal due to the inherent lumpiness of capital projects. We examined the Company's descriptions of the non-REP reliability projects for the last six years and found the nature of 2011 and 2012 project work to be consistent with that of prior years.

The following chart shows the Company's reliability-related spending compared to its SAIDI performance.

Delmarva Delaware Reliability-related Plant Additions and SAIDI Performance

	Non-REP (\$ millions)	REP (\$ millions)	SAIDI (minutes)			
2007	15.7		197			
2008	23.6		213			
2009	25.9		190			
2010	29.0		199			
2011	29.9	\$11.6	192			
2012	37.0	26.5	146			

Until recently, the Company has maintained SAIDI in the range of 190 to 200 minutes, which is comfortably below the 295 minute maximum. The amount and type of non-REP project work in 2011 and 2012 are consistent with maintaining the system at status quo. We saw no evidence to suggest that these projects were not a necessary part of maintaining the reliability of the system at recent SAIDI levels, and presume these projects will be afforded traditional rate base treatment.

Q. WHAT DID YOU CONCLUDE ABOUT THE COMPANY'S REP RELIABILITY-RELATED PROJECT SPENDING IN 2011 AND 2012?

22 A. Quite simply, we saw no engineering necessity for the REP reliability-related capital projects to maintain SAIDI at its status quo level.

Α.

Q. HAS THE REP RELIABILITY-RELATED SPENDING HAD A POSITIVE EFFECT ON DELMARVA'S SAIDI?

As the chart above illustrates, there has been a noticeable improvement in SAIDI performance since the REP reliability-related initiatives began. To be clear, we are not challenging the Company's selection of projects in its REP, or questioning whether those projects might have a positive effect. We recognize that PHI has seen positive improvement in other jurisdictions with similar increased REP spending. Our concern in this proceeding is that spending for such improvement comes without a clear mandate, which raises the question of whether those improvements should be paid for by ratepayers.

Keep in mind that the SAIDI exclusive of MEDs measure reflects everyday reliability, since the effects of major events are excluded. Reliability during blue sky days or minor events, which is roughly what SAIFI and SAIDI numbers represent, is quite different from reliability in significant storm-type events. The Company's REP investment is aimed at the former. To many customers, reliability means that when outages happen, they do not last for very long. Customer complaints often have more to do with a utility's ability to restore service promptly after a major event, and reducing the length of such outages is more of a system resiliency issue. There have been no Commission or government-sponsored studies, and right now we do not have sufficient information to opine as to whether Delaware ratepayers would be willing to pay for improvements in system reliability (or for system resiliency), and if so, to what extent.

Q. IS THE CURRENT SAIDI STANDARD OF 295 MINUTES APPROPRIATE?

We have not been asked to consider that question in this docket, although we note that the appropriateness of that SAIDI standard in Delaware is scheduled to be part of a subsequent Commission investigation examining the overall issue of infrastructure investments and reliability investments in particular. Under the current standards, a SAIDI of 295 is an absolute maximum value above which point penalties may be imposed. No one actually expects the Company to operate at that level. The Delaware standards recognize that each utility must exercise its professional judgment in satisfying the standard based on its system and service territory. Delmarva was, until sometime in 2011, apparently comfortable operating its system to maintain SAIDI in the 200 range, which is well below the maximum.

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V. RATE MAKING TREATMENT OF REP RELIABILITY-RELATED PROJECTS

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16 Q. THE COMPANY PROPOSES TO RECOVER ITS REP-RELATED 17 INVESTMENT IN RATE BASE. IS THAT APPROPRIATE?

18 A. By seeking rate base treatment for its REP expenditures now, the Company is
19 essentially putting the cart before the horse. Given that the Company has no new
20 performance standards to meet, there is little context or framework within which
21 the parties in this proceeding can consider these investments. At this juncture, all
22 we can likely agree upon is that the investments were made to further a corporate
23 strategy.

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This lack of context for REP capital expenditures was the primary impetus behind the creation of Docket 13-152 to investigate Delmarva's proposed distribution

¹² Order No. 8363 in PSC Docket No. 13-152.

infrastructure and reliability investments on a going forward basis. The size of those proposed investments is very significant. As summarized in the following chart, the Company plans to spend \$170 million in REP reliability-related initiatives over the next five years. In fact, over the five-year period, the Company plans to invest more capital in enhancing its reliability than in maintaining it.

REP and Non-REP

Reliability-Related Capital Budget

Non-REP

Budget

\$41.1

31.6

28.8 28.9

26.0

\$156.4

REP

Budget

\$32.3

30.7

34.4

35.4

37.4

\$170.2

\$ Millions

2013 2014

2015

2016

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Total

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Source: REP figures AG-GEN-1 Attachment D (excludes load relief) Non-REP figures from AG-REL-2 Attachment

Q. CAN AN APPROPRIATE FRAMEWORK BE DEVELOPED IN TIME TO FAIRLY EVALUATE THE REP INVESTMENTS IN THIS RATE CASE?

Possibly, depending on the progress that is made in Docket 13-152. The issues involved are by no means simple, and Delaware ratepayers have yet to weigh in on the debate. By way of perspective, keep in mind that in Maryland there have been several years of discussions among stakeholders about reliability issues, and that conversation is still on-going. PHI was recently required to file a report with the Maryland Commission regarding plans to accelerate short-term reliability

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF DELAWARE

IN THE MATTER OF THE APPLICATION OF	
DELMARVA POWER & LIGHT COMPANY FOR) PSC DOCKET NO. 13-115
AN INCREASE IN ELECTRIC BASE RATES	
AND MISCELLANEOUS TARIFF CHANGES)
(FILED MARCH 22, 2013))

COPIES OF FOOTNOTE REFERENCES

IN FOOTNOTE NOS. 4, 5, 6, 7, 8, 11 AND 13

Stephanie L. Vavro

Stephanie Vavro has thirty years of business experience, with more than fifteen years as a consultant specializing in regulated industries. As principal of Silverpoint Consulting, she has managed engagements for regulatory clients in the areas of distribution system reliability, mergers, and performance measurement. Prior to forming Silverpoint, she was a lead consultant in numerous utility reviews, typically focused on quantitative analysis in areas such as capital spending, cost allocation, and performance incentive plans.

Directly Relevant Experience

Principal, Silverpoint Consulting LLC (2008-present)

- Engagement director/project manager for examination of Verizon's wholesale performance measures and performance incentive plan on behalf of the Massachusetts Department of Telecommunications and Cable.
- Project manager for engagement to provide expert testimony and analysis regarding the response by Western Massachusetts Electric Company to the October 2011 snowstorm.
- Project manager for an investigation of Verizon wholesale performance metrics incentive plan on behalf of the Pennsylvania Public Utility Commission.
- Project manager for investigation into the reliability and service quality of Potomac Electric Power Company (Pepco) on behalf of the Maryland Public Service Commission.
- Lead consultant on the legal/consulting advisory team providing support to the Maryland Public Service Commission in its review of the FirstEnergy-Allegheny Energy merger.
- Project manager for an audit of Duke Energy Ohio for the Ohio Public Utilities Commission, which involved an analysis of affiliate transactions and cost allocation methods and the company's compliance with corporate separation rules.
- Lead consultant for the audit of Duke Energy Indiana and Duke Energy Kentucky, with responsibility for the analysis of transactions under service company and affiliate agreements, including affiliate transaction accounting, cost allocation methods, and compliance with regulatory requirements.

Senior Consultant, The Liberty Consulting Group (1999-2008)

• Lead consultant in the audit of Duke Energy Carolinas for the North Carolina Utilities Commission, with responsibility for the analysis of transactions under service-company and affiliate agreements, including affiliate transaction accounting, derivation of fully distributed costs, cost allocation methods, and compliance with regulatory requirements.

- Lead consultant in the analysis and rebuttal of Tucson Electric Power's claim of damages under its settlement agreement, performed on behalf of the Staff of the Arizona Corporation Commission.
- Lead consultant in the focused audit of the affiliate relationships and transactions of NJR, New Jersey Natural Gas, and affiliates for the New Jersey Board of Public Utilities, with responsibility for the analysis of common corporate, business functions, and utility general services provided under service agreements, including transaction accounting and direct and allocated cost methods.
- Lead consultant in the audit of Nova Scotia Power, with a focus on affiliate transactions and cost allocation issues.
- Lead consultant in a review of the proposed acquisitions of UniSource (Arizona) and Portland General Electric (Oregon), focusing on issues of utility financial insulation, governance, service reliability, access to information, and community presence.
- Lead consultant in a review of Commonwealth Edison's rate case filing on behalf of the Illinois Commerce Commission, focusing on the company's capital spending programs.
- Lead analyst in reviews of Verizon's wholesale performance metrics and performance incentive plans for the District of Columbia Public Service Commission, the Maryland Public Service Commission, the Virginia State Corporation Commission, and the New Jersey Board of Public Utilities.
- Lead analyst in the audit of Qwest's performance measures and performance assurance plans for 13 states in the Qwest operating region.
- Consultant on an investigation of Ameritech-Ohio policies, procedures, and compliance with service quality performance requirements under Ohio's Minimum Telephone Service Standards, conducting analysis of service quality performance measures and penalty payments.
- Lead consultant in the audit of BellSouth's performance measures and performance assurance plan for the Florida Public Service Commission.
- Consultant on audits of affiliate relationships and transactions of SJI, South Jersey Gas and affiliates, and of NUI Corporation, NUI Utilities and affiliates, for the New Jersey Board of Public Utilities.
- Consultant on audit of affiliate relations standards for four New Jersey electric utilities on behalf of the New Jersey Board of Public Utilities, leading the examination of cost allocation issues.
- Analyst supporting work on divestiture and a rate case settlement with Public Service of New Hampshire on behalf of the New Hampshire Public Service Commission.
- Analyst supporting engagement to review Delmarva Power & Light's restructuring plan and in engagement to review Potomac Electric Power Company's application to auction its generation assets and its subsequent settlement proposal.

Independent Consultant (1998)

• Sub-contractor to Reed Consulting Group in its administration of the divestiture of GPU's fossil and hydro generating assets.

Dickstein Shapiro (1994-1998)

• Energy analyst at a Washington, DC law firm with primary emphasis on industry restructuring and related policies, issues, and trends. Projects included an analysis of alternatives to PJM pool restructuring, an analysis of issues surrounding nuclear generation in the Northeast, and support for utility/coal company litigation and arbitration.

Other Experience

Westmoreland Coal Company (1991-1993)

• Marketing research manager for a \$400 million coal and energy company. Market research responsibilities included development of coal price forecasts, utility market analysis, SO₂ compliance analyses, and support of marketing and business development efforts.

Ingersoll Rand Corporation (1988-91)

• Analyst assigned to company's mining and construction equipment division, focused on development of marketing-related information system applications.

J.H. Cohn (1987-88)

• Consultant with large regional accounting firm, focused on marketing and business-related software implementation and development.

Bethlehem Steel Corporation (1981-87)

- Analyst for a \$100 million coal and natural resource division, with a key role in developing a market-driven strategic direction and effectuating business turnaround through market research, development of strategic and business plans, and business development.
- Analyst in a major steel corporation research department supporting corporate and R&D projects, which included joint venture feasibility, scheduling analysis to increase productivity and flexibility at a coke oven facility, and interpretation of engineering test data.

Education

M.S., Management Science, Lehigh University, 1984 B.A., Mathematics, magna cum laude, Lehigh University, 1981

PSC DOCKET NO. 13-115 DELAWARE PUBLIC SERVICE COMMISSION STAFF FOLLOW UP SET OF RELIABILITY DATA REQUESTS TO DELMARVA POWER & LIGHT COMPANY

Question No.: PSC-REL-8

Please refer to AG-REL-3 Attachment A and Attachment B.

- (a) Please explain what distinguishes a project that the company identifies as non-REP (Attachment B) versus REP (Attachment A).
- (b) Please explain how the company's project identification, planning, selection, and budgeting processes differ for non-REP versus REP projects.
- (c) Please explain whether any of the REP projects shown for (a) 2012 and (b) 2013 were required to maintain reliability at the levels as measured by Delaware SAIDI in the 2008-2011 time period
- (d) If 2012 non-REP projects were completed in 2012 but the 2012 REP projects had been delayed for one year, what effect would it have had on the ability of the company to maintain system reliability for Delmarva Delaware customers at historical 2008-2011 SAIDI levels?
- (e) Please explain how Delmarva priority-ranks the potential projects within each of the programs in the REP (e.g., priority feeds, URD).
- (f) For each project on Attachment A and Attachment B, please provide a paragraph containing a more detailed description beyond the Short Description shown in the spreadsheets.

RESPONSE:

- a. The REP is a way to combine the efforts into one program that discuss the commitment that the Company is making to continuously improve its reliability performance. The REP is an integral part of the Company's overall expansion-related efforts. REP work is identified based on the following work criteria, Priority Feeder Upgrades, Underground Residential Distribution Cable Upgrades (URD), Distribution Automation, Feeder Reliability Improvements, Conversions, Substation Reliability Improvements, Feeder Load Relief. Non-REP projects are comprised of all other work.
- b. Reliability budget estimates are developed in the following manner:
 - 1. Emergency work the estimates are based on historical trends for similar activities.
 - 2. Priority feeder and other Commission ordered activities the budget is based on the amount of work ordered by the Commission and the average cost of performing the work.

3. Infrastructure replacement and upgrades – the budget is based on the level of activity projected to be performed over the five year period and either average historical costs or standard estimating units for each individual activity.

Throughout the year, if changes to the level of work are identified, these changes are discussed and approved at monthly budget coordination meeting. However, the budget is not modified.

- c. All of Delmarva Power's reliability programs are designed to support the objective to maintain a minimum (and improve upon wherever possible) performance level of 295 minutes as measured by the System Average Interruption Duration Index (SAIDI) in accordance with paragraph 4.3 of the Electric Service Reliability and Quality Standards set forth in Regulation Docket No. 50.
- d. Both REP and Non-REP projects can change from a timing and schedule standpoint.

 Delmarva maintains its performance and will complete all work necessary to maintain system reliability. The ability to maintain system reliability is dependent on the total work performed and not any one project. Therefore, an analysis that looks at the impact of delaying an individual project has not been performed.

Each of these categories is managed by distinct groups that plan and schedule their work to meet the timeline established when the budget was developed. For example, a project that is necessary to be in service prior to the beginning of the warm weather season will be engineered in a way that will allow sufficient time to be constructed prior to July 1. Vegetation management is planned to inspect and trim the overhead system on a two year schedule. Therefore each year half of the system is trimmed. Load growth is planned by the System planning group. They base their plans on historical load growth and prospective new growth within each substation geographic area. Feeder improvements and URD cable replacement are based on historical reliability performance of individual feeders and, like priority feeders, they are inspected and corrective actions identified. Distribution automation plans are developed based on historical reliability performance within an area and identification of feeder groups that can be combined to form an automation plan for load transfers.

- e. The priorities for performing each project are based on available resources to design the projects, coordination with other projects that have fixed completion dates and permitting requirements. These projects are scheduled to be performed during the year and schedules can change to accommodate other projects that need to be completed by specific dates, such as customer connections or load projects needed prior to high load periods.
- f. See PSC-REL-8 Attachments A and B.

Respondent: Michael W. Maxwell

PSC DOCKET NO. 13-115 ATTORNEY GENERAL OF THE STATE OF DELAWARE FIRST SET OF RELIABILITY DATA REQUESTS TO DELMARVA POWER & LIGHT COMPANY

Question No.: AG-REL-19

Provide all studies, analyses, evaluations, assessments, reports, and documents prepared by or on behalf of the Company during the last five years for the purpose of evaluating the Company's reliability performance. Provide all supporting workpapers and source documents in electronic form, with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

Please see the attachments:

Attachment A – 2008 Performance Metrics and Report

Attachment B – 2009 Performance Metrics and Report

Attachment C – 2010 Performance Metrics and Report

Attachment D – 2011 Performance Metrics and Report

Attachment E – 2012 Performance Metrics and Report

Respondent: Michael W. Maxwell

Pepco Holdings, Inc

Asset Management

Asset Performance & Reliability

December 2012 Performance Metrics and Report

January 25, 2012

Jurisdictional Reliability Performances (Current Year vs. Last Year) - By Mandated Jurisdictional Exclusive Criteria - Jurisdictional View

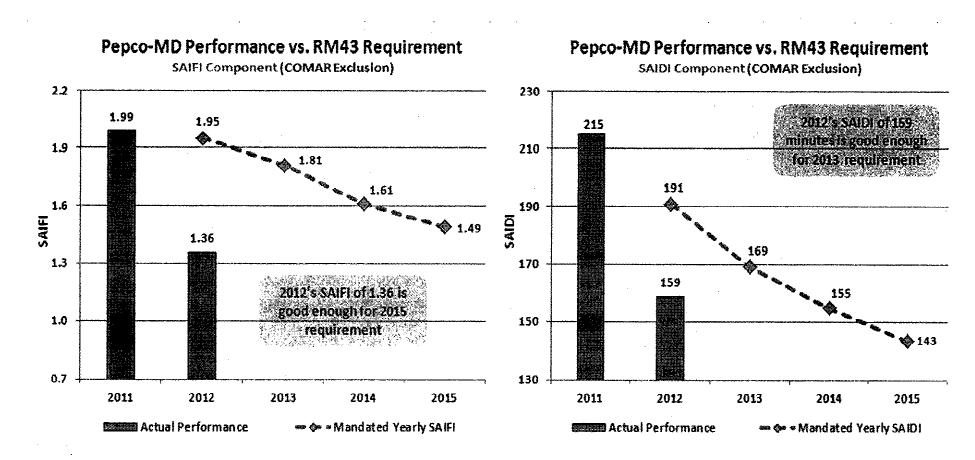
		SAIFL Performance & Requirement									SAIDI (or CAIDI *) Performance & Requirement								
Jurisdiction	2011 2012		2012 vs 2011		2012 Target		2011		2012		2012 vs 2011		2012 Target		t				
	Perf.	Rank	Perf.	Rank	Imp.	Rank	Mandate	Status	Rank	Perf.	Rank	Perf.	Rank	Imp.	Rank	Mandate	Status	Rank	
ACE - New Jersey	1.76	3	1.45	4	-18%	4	1.71	15%	3	110*	n/a	107*	n/a	-3%	5	144 *	-26%	3	
Delmarva - Maryland	2.42	5	1.69	5	-30%	2	1.77	40	4	356	4	190	4	-47%	1	195	-79	5	
Pepco - Maryland	1.99	4	1.36	3	-32%	1	1.95	30%	1	215	3	159	3	-25%	2	191	2.5	4	
Delmarva - Delaware	1.41	2	1.14	2	15%	3	n/a	n/a	n/a	192	2	146	1	-24%	3	295		1	
Pepco - Dist of Columbia	1.19	1	1.01	1	15%	5	1.21	415%	2	168	1	155	2		4	242		2	

^{*} CAIDI as the measuring Unit...

Several Other views on Jurisdictional Performances

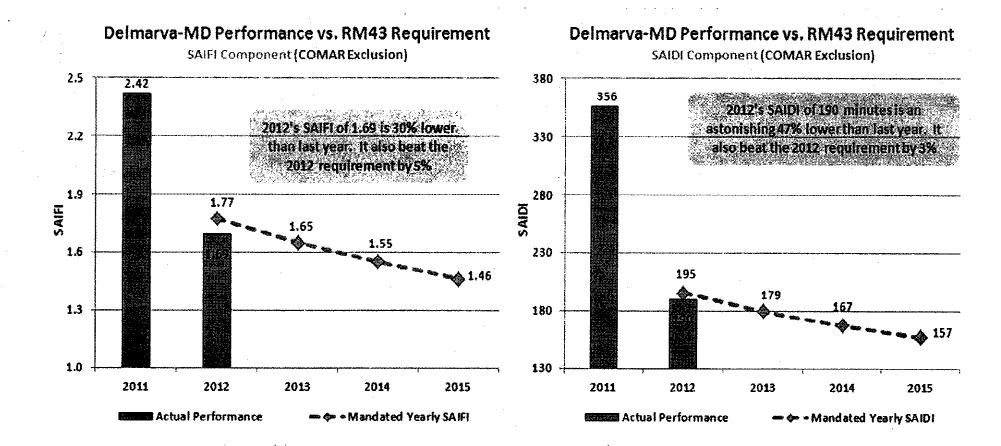
Pepco-MD

In Pepco-MD, SAIFI in 2012 is improved by an extremely large 0.63 or 32% over 2011. SAIDI is improved by 56 minutes or 26%. Pepco-MD's SAIFI in 2012 is actually good enough to be even in compliance to meet the tough RM43's SAIFI requirement 3 years down the road (Pepco-MD's RM43 SAIFI requirement in 2015 is 1.49). Also, if we keep the level of 2012 SAIDI performance and carry that into next year, it would still be incompliance next year (Pepco-MD's RM43 SAIDI requirement in 2013 is 169 minutes).



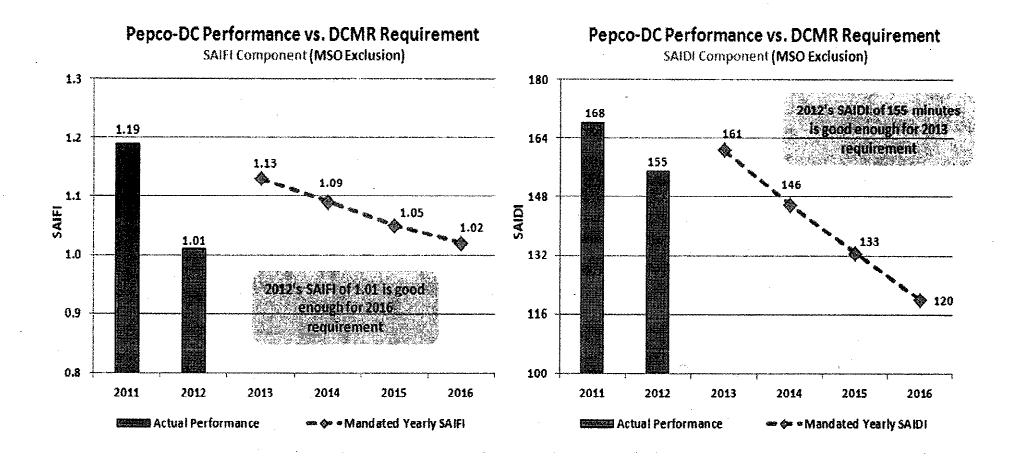
DPL-MD

In DPL-MD, SAIFI in 2012 is improved by an even larger 0.73 or 30% over 2011. SAIDI is improved by an astonishing 166 minutes (close to 3 hours!) or 47%. Given the large gap last year, it has been a big achievement for DPL-MD to meet the RM43's 2012 SAIFI and SAIDI targets by comfortable margin. The prorated targets which are not addressed here was not meet for legitimate reasons (see page 24 for details). There are still enough challenges in future years; DPL-MD needs to continue to improve their performance in order to meet the coming yearly SAIFI and SAIDI Standards.



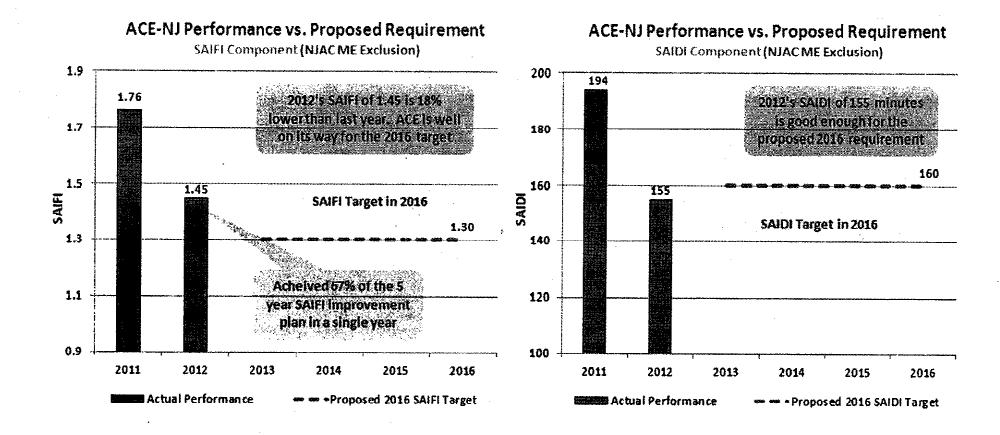
Pepco-DC

In Pepco-DC, SAIFI in 2012 is improved by 0.18 or 15% over 2011. SAIDI is improved by 13 minutes or 8%. Pepco-DC's SAIFI in 2012 is actually good enough to be even in compliance to meet the DCMR SAIFI requirement 4 years down the road (Pepco-DC's SAIFI requirement in 2016 is 1.02). Also, if we keep the level of 2012 SAIDI performance and carry that into next year, it would still be incompliance next year (Pepco-DC's SAIDI requirement in 2013 is 161 minutes).



ACE-NJ

In ACE-NJ, SAIFI in 2012 is improved by a large 0.31 or 18% over 2011. SAIDI is improved by 39 minutes or 20%. ACE-NJ's proposed SAIFI target in 2016 is 1.30, with the current pace in progress, we are confident that ACE-NJ will meet the self-imposed SAIFI target sooner than 2016. ACE-NJ's proposed SAIDI target in 2016 is 160 minutes. ACE-NJ's SAIDI in 2012 is actually good enough to meet the 2016 targets already.



Area of Opportunities

Despite the outstanding progress made during 2012, we estimate PHI companies remain as 3rd quartile or 2nd Quartile status at best (which is a far cry from solid 4th quartile status in 2011 and prior years) among the utility industry based on the latest IEEE reliability performance survey. We have successfully crossed the first hurdle, but there are still many more challenges on the road if we are to pride ourselves among the industry performance leaders. The next step will be more difficult as we are certain to face some degree of diminishing return as most of the low hanging fruits were harvested already. Some of the areas, at least from statistic point of view, that appear easier to tackle are listed below.

- Feeder Lockouts still remain as an area of concern. It is the top SAIFI and SAIDI contributor at PHI (49% of the PHI SAIFI and 30% of PHI SAIDI were produced by feeder lockouts).
 Pepco has the most opportunity to improve on this front 52% of their 2012 SAIFI and 34% of their 2012 SAIDI were caused by feeder lockouts).
- Top 20 SAIDI Days at each PHI Company at Storm Normalized Days those top outage days while accounted for only 5.6% of the yearly available days, they nonetheless contribute to 27% of the PHI system SAIFI and an astonishing 42.5% the PHI system SAIDI (see page 6 for details). If we can more efficiently allocate our resources during those top SAIDI days, the system indices, particularly for SAIDI can be further reduced.
- Centreville and Northeast remain as the Least Reliable Area Despite of the tremendous progress made during 2011, these two districts still ranked as the area with the highest SAIFI and SAIDI among the 12 districts in PHI since the tracking of reliability performances. Move them from the bottom tier in the near future should have a pleasant affect not only to PHI's overall reliability performance, but will certainly please the customers there.
- Outage caused by Equipment Failure They are responsible for the most PHI system SAIFI and SAIDI, accounted for 28% in 2012 for both SAIFI and SAIDI. Pepco area seems to have the most severe equipment failure rate (33% compared to 27% at DPL and 21% at ACE). The most frequent equipment failure types during 2012 were cables at Pepco, Bay and New Castle, whereas ACE has cutouts as their most impacting equipment failure type.

PSC DOCKET NO. 13-115 DELAWARE PUBLIC SERVICE COMMISSION STAFF INITIAL SET OF CONSTRUCTION PROGRAM DATA REQUESTS TO DELMARVA POWER & LIGHT COMPANY

Question No.: PSC-CP-2

For the next five years provide the forecasted reliability indices identified above.

RESPONSE:

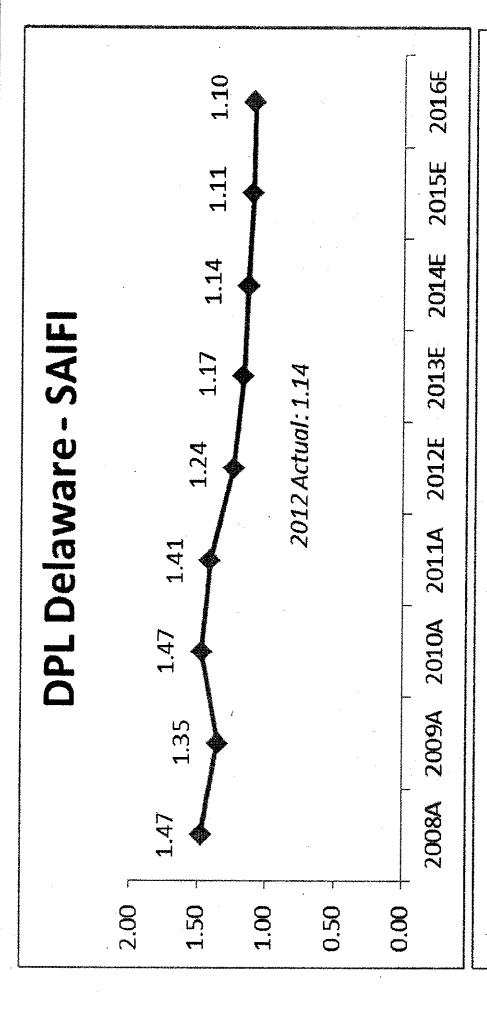
Delmarva has not performed reliability forecasting requested. See the attached Reliability Model, PSC-CP-2 Attachments A-C, and refer to the explanation in PSC-CP-3.

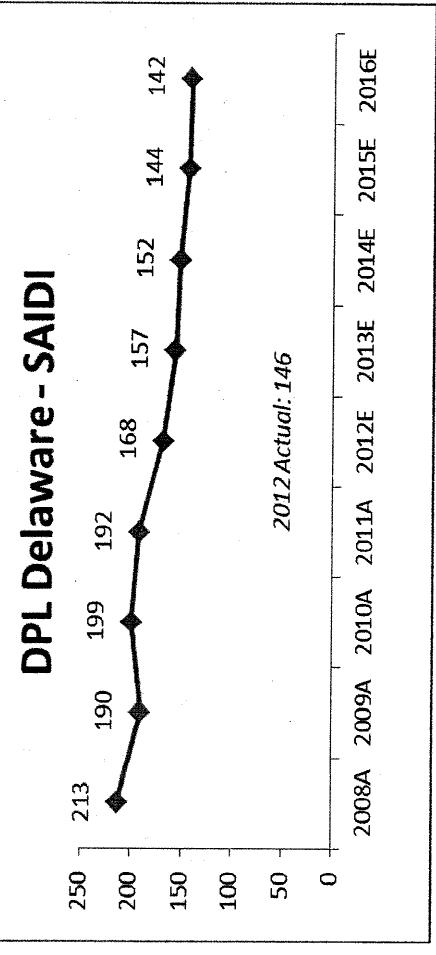
Respondent: Michael W. Maxwell

A Pepco Holdings Inc

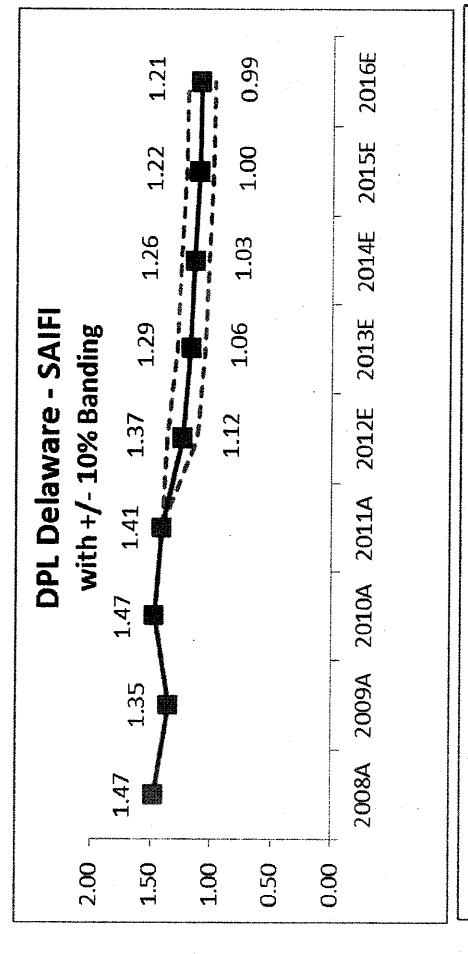
DPL DE Reliability Forecasts June 21, 2013 DRAFT

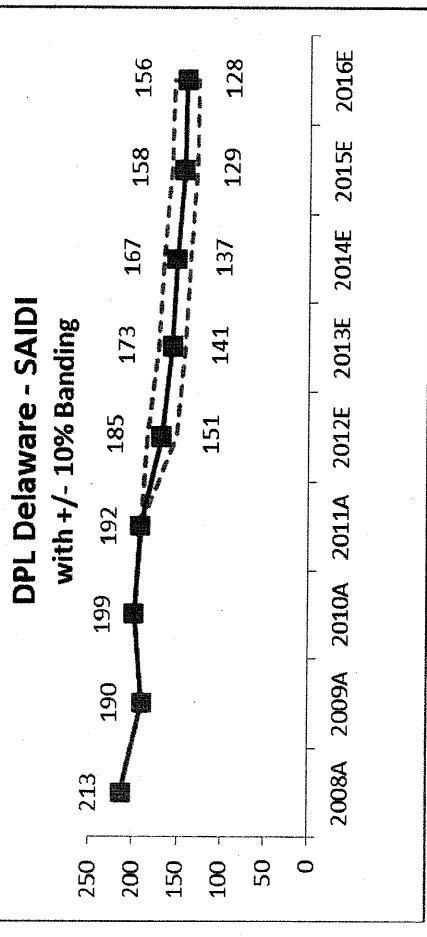
Total Results

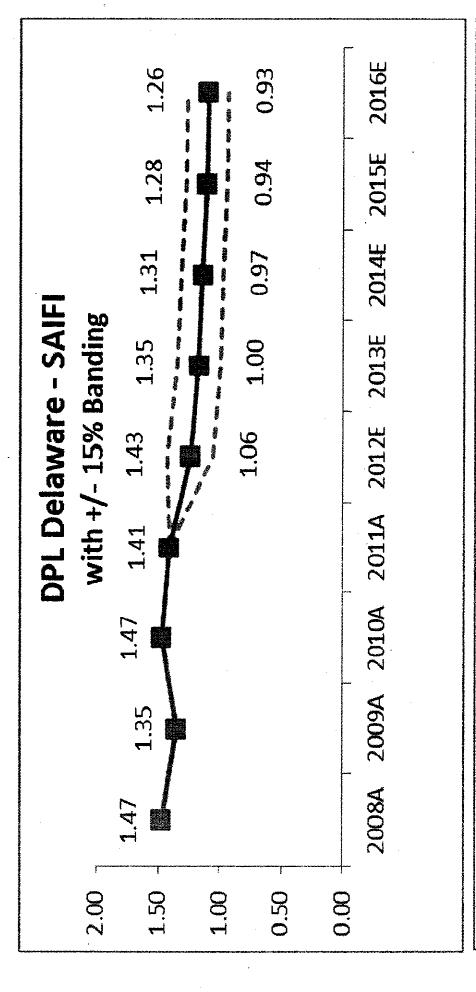


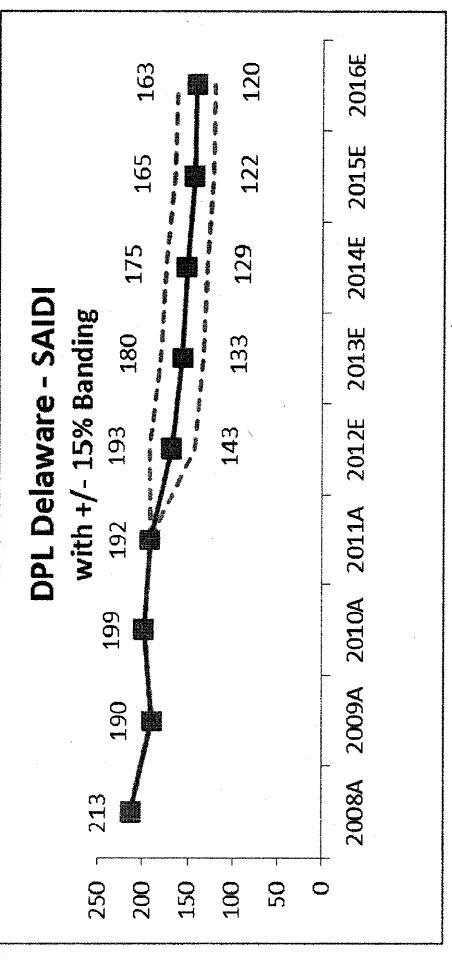


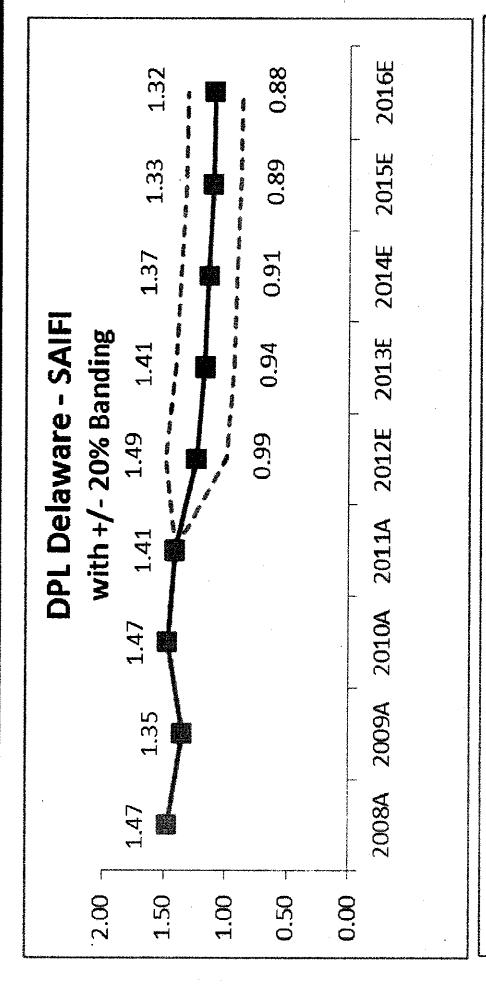
PHI CONFIDENTIAL

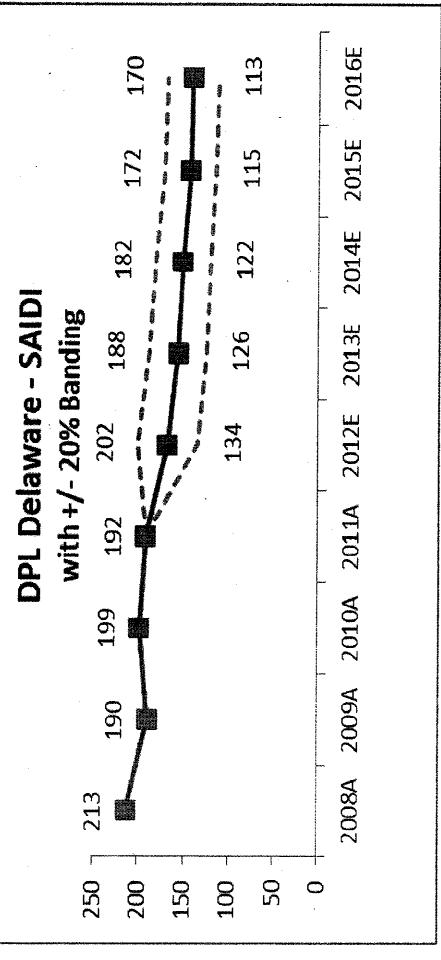












PHI CONFIDENTIAL

PSC DOCKET NO. 13-115 ATTORNEY GENERAL OF THE STATE OF DELAWARE FIRST SET OF RELIABILITY DATA REQUESTS TO DELMARVA POWER & LIGHT COMPANY

Question No.: AG-REL-2: Planned Capital Spending

- a. For the years 2013 through 2018, state the amount budgeted for capital spending broken down by plant category.
- b. Break down each of the amounts set forth in your response to part(a) by each:
 - I. FERC USOA account:
 - 2. REP:
 - 3. Non-REP (itemize); and
 - 4. Total.
 - 5. Reconcile differences between the total and item (1) and the sum of items (2) and (3) to the total.
- c. Provide all workpapers and source documents supporting the Company's response in electronic form, with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested.

RESPONSE:

Delmarva assumes that "REP" is intended to refer to "Reliability Enhancement Plan."

- a. Refer to the response to AG-GEN-1 Attachment B. The current capital plan covers the 2013-2017 timeframe.
- b. 1. Capital budgets and expenditures are not prepared by FERC Account.
 - 2. Refer to AG-GEN-1 Attachment D.
 - 3. See the attached: AG-REL-2 Attachment.
 - 4. Refer to AG-GEN-1 Attachment B.
 - 5. The requested reconciliation has not been performed.
- c. Refer to attachments above.

	DE 13=113					
	AG-REL-2 Attachment					
		PHI 2013 -	3	2017 "Non REP" Capital Budget	Budget	
	CORE	2013	2014	2015	2016	2017
DPL-DE	Distribution					
	Customer Driven	12,105,059	11,890,891	12,135,731	12,604,197	12,950,259
	Reliability	41,105,855	31,640,046	28,755,961	28,939,549	26,008,727
	Load	1,199,318	507,528	511,344	515,160	528,039
					,	
	Total	54,410,232	2 44,038,465	41,403,036	42,058,906	39,487,024

Project Name	Short Description ISD	dsi	2013	2014	2015	2016	2017	TOTAL
UDLBCSOLD	Bay DE Transm Line Upgra	12/31/2017	501		1	1		505
UDLBCMVD	Bay DE - Replace MV Stre	12/15/2016	277,671	287,400	290,001	258,620	0	1,113,692
UDLBCH0M	Millsboro - Highway Reloca	12/31/2017	688,762	574,192	312,415	321,082	329,110	2,225,561
UDLBCSIM	Millsboro - New Services &	5 12/31/2017	2,384,802	2,400,000	2,500,000	2,600,000	2,750,000	12,634.802
UDLBCS2M	Millsboro - Residential Infra	12/31/2017	1,186,508	1,200,000	1,300,000	1,300,000	1,400,000	6,386.508
UDLBCS3M	Millsboro - Facility Relocati	12/31/2017	296,051	300,000	300,000	350,000	350,000	1.596.051
UDSBCSOLD	Bay DE Dist Sub Upgrades	12/31/2017	536	1	· such			540
		-	4,834,831	4,761,594	4,702,418	4,829,704	4,829,112	
UDLNCACRD	New Load Accruals & Emer	12/31/2017	966	1,000	1,000	1,000	1,000	4.996
UDLNCMR1	Meter Blanket - New Castle	12/31/2017	701,831	714,000	728,300	742,850	756,770	3.643.751
UDLNCMR2D	Meter Blanket - AMI NC D	12/31/2017	738,847	765,000	780,300	795,900	811.800	3.891.847
UDLNCMVD	Mercury Vapor St Lights Re	12/31/2013	480,256	0	0	0	0	480.256
UDLNCHOC	Christiana - Highway Reloca	12/31/2017	2,095,241	2,145,549	2,166,696	2,282,949	2,340,023	11,030,458
UDLNCSIC	Christiana - New Services &	12/31/2017	1,764,698	1,802,724	1,900,710	2,000,429	2,103,276	9.571.837
UDLNCS2C	Christiana - Residential Infr	12/31/2017	1,025,153	1,201,023	1,306,307	1,401,365	1,508.278	6.442.126
UDLNCS3C	Christiana - Facility Relocat	12/31/2017	463,206	500,001	550,000	550,000	000,009	2.663.207
			7,270,228	7,129,297	7,433,313	7,774,493	8.121.147	
			12,105,059	11,890,891	12,135,731	12,604,197	12,950,259	
-	•							

Project Name	Short Description	ISD	ξ 2	2013	2014	2015	2016	2017	TOTAL		
UDLBMSSD	Bay DE - Hazardous Waste / Distribution Retirements	12/31/2017	0.	-17,640	-25,000	-25,000	-25,000	-25,000	-117,640		
UDLBRACRD	BAY-DE - Accural for Reliability	12/31/2017	0.	1,068	1,000	1,000	1,000	1,000	5,068		
UDLBOSV5DE	Bay-DE Reg: Salvage Scrap Wire/Cable	12/31/2017	0.	-17,640	-25,000	-25,000	-25,000	-25,000	-117,640		
UDLBRM3M1	Emergency Restoration Blanket - Millsboro	12/31/2017	0.	2,485,026	2,528,043	2,528,043	2,528,043	2,528,043	12,597,198		
UDLBRM4MA	Millsboro - Misc Dist Improvement Blanket	12/31/2017	0.	612,596	999'999	999'999	999,999	999,999	3,279,260		
UDLBRM4ME	Millsboro - Distribution Pole Repl	12/31/2017	0.	35,488	40,001	40,001	42,231	43,287	201,008		
UDLBRM4MH	Avian Protection Improvement Millsboro	12/31/2017	0.	30,022	33,333	33,332	34,166	35,020	165,873		
UDLBRM4MI	Millsboro District - Recloser Replacement	12/31/2017		376,971	150,000	150,000	150,000	153,750	980,721		
UDLBRM4MM	Customer Reliability Improvement - Millsboro	12/31/2017	0.1	205,216	228,128	231,332	237,116	243,044	1,144,836		
UDLBRM4MO	Milisboro: Padmount Transformer Replacements	12/31/2017	00	•	200,000	250,000	250,000	250,000	950,000		
UDLBRM4MQ	Millsboro: Upgrades for Multi Device Operations	12/31/2017	0.	452,135	500,000	200,000	200,000	200,000	2,452,135		
UDLBRM4RC	Bishop Substation - Lines Upgrades DE	5/31/2013	0.	142,156	0	0	0	0	142,156		
UDLBRM4ZM	AMI Distribution Line Work Bay Region: DE (Millsboro)	12/31/2014	0.1	9,934		0	0	0	9,934		
UDLBRMSMZ	IR: Millsboro - Replace Deter Dist Line Switches	12/31/2018	00.1		0	0	0	0	0		
UDLBRMSND	NERC Line Upgrades: Dist Lines Bay DE	12/31/2014	0.	235,309	100,000	0	0	0	335,309		
UDSBRD71D	Bay Dist Sub Emergency - DE	12/31/2017	0.	136,860	144,970	147,994	151,123	151,653	732,600		
UDSBRD8AD	Bay Dist Sub Planned Impvts - DE	12/31/2017	0.1	35,248	36,151	36,853	37,554	38,255	184,061		
UDSBRD8BD	Bay Dist Sub Relay Impvts DE	12/31/2017	0.1	47,406	53,713	54,864	56,105	57,257	269,345		
UDSBRD8DD	DPU Relay Replacement: Laurel Feeder 506	12/31/2013	0.	160,406	4,921	0	0	0	165,327		
UDSBRD8ED	Bay Dist Sub Battery & Charger Repl - DE	12/31/2017	0	66,777	74,268	76,629	79,001	81,383	378,058		
UDSBRD8FD	Bay Dist Subst Bushing Repl - DE	12/31/2017	0.	102,445	74,334	74,927	75,521	76,115	403,342	Ŋ.	
UDSBRD8G	Bay Distribution - PHI Spare Transformers	5/31/2014	ō	1,160,295	468,356	0	0	0	1,628,651		
UDSBRD8G2	Bay Region 69/25x12 40MVA Mobile Unit	5/31/2013	0	918,806	0	0	0	0	918,806		
UDSBRD8G3	Bay Region Puchase Mobile Transformer 2011	12/31/2012	8	4,704	0	0	0	0	4,704		
UDSBRD8G4	Bay Region Puchase 138x69kV / 25kV 30MVA Mobile Unit	12/31/2013	071	966,027	1,209	0	0	0	967,236		
UDSBRD8ID	Bay Reg - DE: Replace Dist. Substation Roofs	12/31/2017	0	406,368	68,148	68,385	68,415	68,653	696'629		
UDSBRD8MD	Scada/RTU Upgrade Capability. DE	12/31/2017	0.	42,072	44,952	45,892	46,831	47,771	227,518		

UDSBRD8PD	Surplus Dist Sub Equip Retire - DE	12/31/2017	10,	10,532 10,500	0 10,500	10,500	10,500	52,532
UDSBRD8RB	Greenwood Substation-Retire/Remove 4kV	12/31/2013	127,281	1,429		0	0	128,710
UDSBRD8RG	Wyoming-Retire Substation	12/31/2013	3.8 80,	80,129	0	0	0	80,129
UDSBRD8VD	NERC Physical Security - Bay-DE Dist Sub	12/31/2017	1.0 165,567	567 166,466	169,849	173,335	176,822	852,039
UDSBRD9DD	Replace Deteriorated Dist Brkrs DE	12/31/2017	584,086	086 632,057	7 642,607	1,306,321	1,327,424	4,492,495
UDSBRD9SX1	IR: Sussex - T2 Replacement	12/31/2014	339,529	1,115,244	4,780	0	0	1,459,553
UDSBRD9GD	Replace Aging Dist Transformers DE	12/31/2017	.00		0	0	27,089	27,089
UDSBRD9YD	IR: Bay Repl Deteriorated Dist Sub Structures DE	12/31/2017	00.1	•	0 0	0	0	0
UDSBRD9ZD	IR: Bay Repl Deteri Switches Dist Sub DE	12/31/2017	00.1		0	0	0	0
			9,905,178	178 7,293,889	5,683,654	6,363,928	6,433,732	
		•						
UDLNMS3D	Distribution Transformer Retirements DE	12/31/2017	1.0 132,992	155,481	203,840	248,560	254,592	995,465
UDLNRACRD	NC-DE - Accural for Reliability	12/31/2017	0.1	1,000	1,000	1,000	1,000	4,996
UDLNMSSD	NCDE Removal & Salvage Capitalized Equipment	12/31/2017	-17,640	540 -25,000	0 -25,000	-2	-25,000	-117,640
UDLNOSVSD	NC-DE Reg. Salvage Scrap Wire/Cable	12/31/2017	1.0 -17,640	540 -25,000	-25,000	į		-117,640
UDLNRM3CI	Emergency Restoration Blanket-Christiana	12/31/2017	1.0 10,796,115	115 10,744,131	10,744,131	10,744,131	10,744,131	53,772,639
UDLNRM4CA	Misc Dist Improvement Blanket - Christiana	12/31/2017	0 899,690	900,000	900,000	900,000	000,006	4,499,690
UDLNRM4CE	Christiana District-Distrib Pole Repl\Reinf	12/31/2017	330,572	364,228	368,923	373,849	383,195	1,820,767
UDLNRM4CH	Avain Protection: Christiana	12/31/2017	.0 46,999	999 50,929	50,554	51,370	52,653	252,505
UDLNRM4CI	Christiana Distr- Replace Line Reclosers	12/31/2017	.0 505,863	500,264	501,565	500,746	513,265	2,521,703
UDENRM4CM	Customer Reliability Impvts-Christiana	12/31/2017	0 433,430	130 489,836	500,629	514,426	527,287	2,465,608
UDLNRM4CR	Wilmington Network Upgrade	5/31/2017	0 448,645	595,758	599,600	603,442	607,284	2,854,729
UDENRM4CO	Christiana: Padmount Transformer Replacements	12/31/2017	00:	200,000	250,000	250,000	250,000	950,000
UDLNRM4CQ	Christiana: Upgrades for Multi Device Operations	12/31/2017	.0 502,574	500,000	500,000		500,000	2,502,574
UDENRM4CU	Install Tree Wire/Spacer Cable - Christiana	12/31/2017	0.	0 492,564	492,389	492,367	504,676	1,981,996
UDLNRM5BA	IR. Rogers Road Sub: Convert 4kv to 12kv	12/31/2012	0.	3,947 0	0	0	0	3,947
UDLNRMSBB	Brookside DE0222: Upgrade Feeder to Balance Load	12/31/2013		0 0	0	0	0	0

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UDENRMSND	NERC Line Upgrades: Dist Lines NC DE	12/31/2014	0 226,509	50,000	0	0	0	276,509
UDLNRMSSC	Christiana Sub: Upgrade Fdr Duct/Manhole Sys	12/31/2013	.0 1,502,344	0	0	0	0	1,502,344
UDLNRM5SD	Reconductor DE0217	4/30/2013	.0 568,372	0	0	0	0	568,372
UDLNRMSSE	Dist Line Work for Swtchgr Replac	12/31/2017	.0 480,339	9 506,532	509,284	512,036	514,786	2,522,977
UDLNRM8SE	Christiana DistrRebuild OH Rear Lot Dist. Sys	12/31/2017	.0 341,196	5 400,179	1,000,000	1,000,000	1,000,000	3,741,375
UDLNRM8SH	Churchmans - Replace Reclosers	5/31/2013	.0 20,225	9	0	0	0	20,225
UDLNRM9SB	CH District Replace Steel Poles along 4th St. Wilm	12/31/2014	.0 546,987	600,182	0	0	0	1,147,169
UDLNRM4SA	Milford Xrd DE0290: Install Recloser	5/31/2013	0.	0	0	0	0	0
UDLNRMT1	Milltown: Move Ckt 640 from T1 to T3 (lines component)	5/31/2013	.0 185,823	0	0	0	0	185,823
UDSNRD71D	NC DE: Dist Sub Emergency	12/31/2017	.0 235,656	5 256,081	259,307	262,535	265,763	1,279,342
UDSNRD8AD	NC DE: Dist Sub Planned Impvts	12/31/2017	.0 98,046	5 106,895	71,406	72,382	73,357	422,086
UDSNRD8BD	NC DE: Dist Misc Relay Blanket	12/31/2017	.0 61,414	4 67,789	906'89	70,026	71,144	339,279
UDSNRD8ED	NC DE: Dist Sub Battery & Charger Repl	12/31/2017	.0 103,071	107,927	108,835	109,743	110,650	540,226
UDSNRD8FD	NC DE Dist Sub Bushing Repl	12/31/2017	.0 122,066	5 128,106	139,376	140,091	144,018	673,657
UDSNRD8G	New Castle - PHI Spare Transformers	12/31/2016	.0 1,125,160	1,573,882	1,369,132	1,477,790	0	5,545,964
UDSNRD8G1	New Castle - Purchase 138/69-12kv Mobile Tr	12/31/2013	.0 3,790,302	64,759		0	0	3,855,061
UDSNRD8GD	Christiana T2 upgrade	12/31/2012	1 124,303	0	0	0	0	124,303
UDSNRD8PD	IR: NC DE Dist Sub Misc Equip Retire	12/31/2017	.0 24,515	5 26,769	26,999	27,228	27,459	132,970
UDSNRD8RA	North Wilmington Substation - Cleanup and Retire	12/3/2014	0.	0 298,275	0	0	0	298,275
UDSNRD8RC	Tenth Street Substation - Cleanup and Retire	12/31/2013	.0 136,479	0	0	0	0	136,479
UDSNRD8SA	CHURCHMANS Recloser removals	12/31/2013	46,220	0	0	0	0	46,220
UDSNRD8SE	Silverbrook Sub: Replace Failed T-3	6/1/2013	1 264,849	0	0	0	0	264,849
UDSNRD8SI	Chapel St. Retire T1- Resupply Sta Service	12/31/2013	1.0 88,077	0	0	0	0	88,077
UDSNRD8VD	NERC Physical Security - NC-DE Dist Sub	12/31/2017	.0 784,419	890,424	306,583	307,579	318,825	2,607,830
UDSNRD9A	IR: Rogers Road Substation - Cleanup and Retire	12/3/2014	0.	285,054	0	0	0	285,054
UDSNRD9DD	IR: NC DE Brkr Repl Dist Sub	12/31/2017	0.1,399,999	1,385,949	1,399,530	1,131,775	1,142,586	6,459,839
UDSNRD9FD	IR: NC DE Replace/Upgrade PTs Dist Subs	12/31/2017	.0 69,201	78,098	79,165	80,235	82,269	388,968
UDSNRD9HD	NC DE Subs: Replace PCB Cap Banks	12/31/2013	.0 287,450	0	0	0	0	287,450

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UDSNRD9G1	Replace Aging Dist Transformers DE	12/31/2017	0	0	1,824,325	2,154,028	534,768	4,513,121
UDSNRD9RA	Edgemoor Substation - Clean Up and Retire	12/31/2017	0 0.	0	0	0	0	0
UDSNRD9SE	IR: Edgemoor 12kV Sub: Upgrade 12kV Breakers	12/15/2013	1.0 207,818	0	0	0	0	207,818
UDSNRD9SH	Brookside - Replace T2 34/12kV Transformer	12/31/2013	.0 2,080,135	0	0	0	0	2,080,135
UDSNRD9S1	Milford Crossroads: Replace T2	5/31/2013	.0 389,773	0	0	0	0	389,773
UDSNRMT2	Milltown: Retire TI- ReLoc Ckt 640 to T3	12/31/2013	0.0	0	0	0	0	91,185
UDSNRD9SK	West T5: Replace 69/34 kV Transformer	12/31/2013	0079,066	0	0	0	0	1,079,066
UDSNRD9SL	Replace West T2 69-34 KV Transformer	12/31/2014	1 287,831	979,692	0	0	0	1,267,523
UDSNRD9SM	Replace Kiamensi 138-34 KV T2 Transformer	12/31/2014	292,515	1,225,194	0	0	0	1,517,709
UDSNRD9SN	Replace Talleyville T2 transformer	12/31/2015	0	282,775	747,552	0	0	1,030,327
UDSNRD9YD	IR: NC DE Repl Deter Structures and Foundations Dist Sub	12/31/2017	0	0	0	0	0	0
UDSNRD9ZD	IR: NC DE Repl Deter Switches Dist Sub	12/31/2017	.0 72,789	87,404	99,276	100,282	101,287	461,038
			31,200,677	24,346,157	23,072,307	22,575,621	19,574,995	
	3							

41,105,855 31,640,046 28,755,961 28,939,549 26,008,727

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TOTAL	528,992	2,563,178	3,092,170	-	71,904	97,315				
2017		528,039	528,039		0	0	0		528,039	
2016		515,160	515,160		0	0	0		515,160	
2015		511,344	511,344	,	0	0	0	-	511,344	
2014		507,528	507,528		0	0	0		507,528	
2013	528,992	501,107	1,030,099		71,904	97,315	169,219		1,199,318	
(SD	12/31/2017	12/31/2017			5/31/2012	5/31/2012				
Project Name Short Description	Millsboro - Feeder Load Relief	Underbuilt Distribution Rebuild: Bay DE			Distribution Line Work for Sub Expansion	Brandywine to Edgemoor Distribution Unde			Total Load	
Project Name	UDLBLM7M	UDLBPN7DD			UDLNPBC1	UDLNPBC2				

PSC DOCKET NO. 13-115 ATTORNEY GENERAL OF THE STATE OF DELAWARE FIRST SET OF RELIABILITY DATA REQUESTS TO DELMARVA POWER & LIGHT COMPANY

Question No.: AG-REL-3: Capital Additions

- a. For each of the years 2007 through 2012, and for 2013 through the date of your response, state the amount of plant additions broken down by plant category.
- b. Break down each of the amounts set forth in your response to part (a) by each:
 - 1. FERC USOA account:
 - 2. REP;
 - 3. Non-REP (itemize): and
 - 4 Total
 - 5. Reconcile differences between the total and item (1) and the sum of items (2) and (3) to the total.
- c. State the amount of plant additions included in each year of the Company's five-year capital budget for period 2013 through 2018.
- d. Provide all workpapers and source documents supporting the Company's response in electronic form, with all spreadsheet links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data requested is not available in the form requested, provide the information in the form that most closely matches what has been requested

RESPONSE:

Delmarva assumes that "REP" is intended to refer to "Reliability Enhancement Plan."

- a. Refer to the response to AG-REL-1 Attachment B.
- b. 1. Capital budgets and expenditures are not prepared by FERC Account. Refer to the response to AG-RR-66.
 - 2. For available information, see the attached: AG-REL-3 Attachment A. Note that the Reliability Enhancement Plan (REP) was approved by Delmarva's Board of Directors in 2010.
 - 3. For available information, see the attached: AG-REL-3 Attachment B.
 - 4. Refer to the response to AG-GEN-1 Attachment A. See also AG-REL-1 Attachment C.
 - 5. The requested reconciliation has not been performed.
- c. The requested forecast has not been performed.

1/18/2013 2011 - 2017 DPL - DE REP Actuals

Actual Expenditures	2011 As of 12/2011	2012 As of 12/2012	2013 As of 3-31-13
Priority Feeder Upgrades Underground Residential Distribution Cable	2,905,577	5,832,319	811,941
Upgrades (URD)	3,837,509	5,674,580	1,419,556
Distribution Automation Feeder Reliability	2,053,809	5,890,246	2,138,966
Improvements Conversions Substation Reliability	1,467,543	4,830,102	1,231,126 742,360
Improvements		1,982,713	926,803
Feeder Load Relief	1,303,775	2,281,930	680,271
TOTALS	11,568,213	26,491,891	7,951,022

PF Upgrade UDLBRM4MF UDLNRM4CF UDLNRM4CK UDLNRM4CK UDLBRM4MC UDLBRM4MD UDLNRM4CC UDLNRM4CC UDLBRM4MD UDLNRM4CC	Millsboro - Priority Circuit Improvement Millsboro Priority Feeder Rebuild Christiana - Priority Ckt Improvement Priority Feeder Rebuild: Christiana TOTAL Millsboro - Replace Deteriorated URD Cable Millsboro - Planned URD Cable Replacement Christiana - Replace Deteriorated URD Cable TOTAL Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network Millsboro Comm Work - Install Radios in Line Equip	481,869 0 1,512,906 721,017 2,715,792 636,492 1,200,000 961,105 2,797,597 570,727 144,908 437,987 441,936	1,334,564 209,958 2,905,577 759,646 2,004,031
UDLNRM4CF UDLNRM4CK URD UDLBRM4MC UDLBRM4MD UDLNRM4CC	Christiana - Priority Ckt Improvement Priority Feeder Rebuild: Christiana TOTAL Millsboro - Replace Deteriorated URD Cable Millsboro - Planned URD Cable Replacement Christiana - Replace Deteriorated URD Cable TOTAL Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	1,512,906 721,017 2,715,792 636,492 1,200,000 961,105 2,797,597 570,727 144,908 437,987	209,958 2,905,577 759,646 2,004,031 1,073,832 3,837,509
UDLNRM4CK URD UDLBRM4MC UDLBRM4MD UDLNRM4CC	Priority Feeder Rebuild: Christiana TOTAL Millsboro - Replace Deteriorated URD Cable Millsboro - Planned URD Cable Replacement Christiana - Replace Deteriorated URD Cable TOTAL Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	721,017 2,715,792 636,492 1,200,000 961,105 2,797,597 570,727 144,908 437,987	209,958 2,905,577 759,646 2,004,031 1,073,832 3,837,509
URD UDLBRM4MC UDLBRM4MD UDLNRM4CC	Millsboro - Replace Deteriorated URD Cable Millsboro - Planned URD Cable Replacement Christiana - Replace Deteriorated URD Cable TOTAL Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	721,017 2,715,792 636,492 1,200,000 961,105 2,797,597 570,727 144,908 437,987	209,958 2,905,577 759,646 2,004,031 1,073,832 3,837,509
UDLBRM4MD UDLNRM4CC	Millsboro - Replace Deteriorated URD Cable Millsboro - Planned URD Cable Replacement Christiana - Replace Deteriorated URD Cable TOTAL Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	636,492 1,200,000 961,105 2,797,597 570,727 144,908 437,987	2,905,577 759,646 2,004,031 1,073,832 3,837,509
UDLBRM4MD UDLNRM4CC	Millsboro - Planned URD Cable Replacement Christiana - Replace Deteriorated URD Cable TOTAL Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	1,200,000 961,105 2,797,597 570,727 144,908 437,987	2,004,031 1,073,832 3,837,509
UDLNRM4CC	Christiana - Replace Deteriorated URD Cable TOTAL Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	961,105 2,797,597 570,727 144,908 437,987	1,073,832 3,837,509 1,063,871
	Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	2,797,597 570,727 144,908 437,987	3,837,509 1,063,871
DA UDLBRDAID	Distribution Automation - Bay DE UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	570,727 144,908 437,987	1,063,871
DA UDLBRDAID	UF Install ASR Computer Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	144,908 437,987	
	Substation Distribution Automation Bay DE MI Comm Work - Collector to Data Network	437,987	2 555
UOIBRASRD	MI Comm Work - Collector to Data Network		2,000
UDSBRDAID		441 936	200,647
UORBOBR1M	Millsboro Comm Work - Install Radios in Line Equip	111,230	88,494
UORBODA1M		324,168	57,591
UORBORBSM	BBW Base Station - Install Millsboro	266,570	62,419
UORBORSSM	Millsboro Sub Subscriber - BBW	201,659	
UDLNRDAIC	Distribution Automation: Christiana District	1,045,169	·
UOINRASRD	UF Install ASR Computer	144,908	79,502
UDSNRDAIC	Distribution Automation: Christiana Substations	389,750	154,396
UORNOBR1C	CH Comm Work - Collector to Data Network	375,928	196,004
UORNODA1C	Christiana Comm Work - Install Radios in Line Equipment	222,709	46,907
UORNORBSC	BBW Base Station - Install Christiana	234,210	101,423
UORNORSSC	Christiana - Sub Subscriber - BBW	202,270	
	TOTAL	5,002,899	2,053,809
Feeder REL UDLBRM63M	Millsboro: Feeder Reliability Improvement	583,484	627,540
UDLNRM63C	Christiana Feeder Reliability Improvements	2,142,216	
	TOTAL	2,725,700	1,467,543
•		13,241,988	
Feeder LR UDLBLBRI	Lakeside: Construct 2 New Feeders	0	
UDLBLFP2	Five Points - Construct New Feeder	0	
UDLBLM7M	Millsboro - Feeder Load Relief	711,702	458,271
UDLBLM7M.1	Millsboro - Distribution VAR Correction	0	
UDLBLM7M.2	Install Dist Regulators- Fdr Load Relief - Millsboro	0	
UDLBLM7M.22	Nr Seaford DE0516: R/C 1.75 miles of Feeder	0	
UDLBLM7M.33	Five Points DE0528: Double Leg Getaway & Add Recloser	0	
UDLBLM7M.7	Cedar Neck DE0532: Double-leg Getaway&Install Reclosers	0	
UDLBLM7M.9	Harbeson Sub: Swap Feeders 2270 & 2237	. 0	
UDLBLMG1	Magnolia Area 230/25kV Substation: Build two new 25kV Distribut	0	
UDSBLFP1	Five Points Sub - T2 Add New Brkr	0	
UDSBLM72A	Clayton Sub Replace T3	31,157	5,501
UDSBLM7D	Future Projects Dist Sub Bay DE	0	

UDSBLMG2	Magnolia Area 230/25kV Substation-Build New Substation	0	
UDLNLCBC2	Mount Pleasant T2: Extend a New Feeder	0	
UDLNLM7C	Christiana - Feeder Load Relief	244,501	840,003
UDLNLM7C.1	Christiana - Distribution VAR Correction	0	
UDLNLM7C.10	Valley Road: Establish 12 kV Exit Feeders	0	·
UDLNLM7C,2	Install Dist Regulators - Fdr Load Relief- Christiana	0	
UDLNLM7C.21	Churchman's DE0256: Reconductor Getaway	0	
UDLNLM7C.4	Bear 12kV: Parallel exit cable DE0755	0	
UDSNLM7	Future Projects	0	
UDSNLM7D	Future Projects	0	
UDSNLM70A	West Wilmington: Replace Low-Side Configuration	0	-
UDSNLM78A	Red Lion - Add 2nd 138/25kV Transformer	0	
UDSNLM78B	Reybold - Increase T1 & T2 emergency rating	0	
UDSNLMC1	Montchanin Sub: Install New 34/12kV Transformer and Switchgear	0	
UDSNLVRI	Valley Road Sub: Install 138/12kV Transformer & Swgr	0	
UDSNLVRI	Valley Road Sub: Install 138/12kV Transformer & Swgr	0	-

987,360

1,303,775

14,229,348

11,568,213

•		· · · · · · · · · · · · · · · · · · ·		
			\$ *	
Compa	n Project Name	Short Description	2012	2012
			P	ctuals as of
DPL-DE				12/31/2012
PRI FD	UDLBRM4MF	Millsboro - Priority Circuit Improvement	1,494,110	795,059
•	UDLNRM4CF	Christiana - Priority Ckt Improvement	2,315,615	5,037,261
·		TOTAL	3,809,725	5,832,319
		_		
URD	UDLBRM4MC	Millsboro - Replace Deteriorated URD Cable	751,172	929,715
	UDLBRM4MD	Millsboro - Planned URD Cable Replacement	2,536,257	3,148,970
	UDLNRM4CC	Christiana - Replace Deteriorated URD Cable	1,005,986	703,978
	UDLNRM4CD	Christiana - Planned URD Cable Replacement	1,464,830	891,918
	UDLNRM5CA	IR: Christiana - URD Infrastructure Replacements	6 750 045	E 074 E00
		TOTAL	5,758,245	5,674,580
DA	LINY DDD A 1D	Divite Avenue Div DE	751 526	207.050
DA	UDLBRDA1D	Distribution Automation - Bay DE	751,526 463,469	397,950 924,674
	UDSBRDA1D UOIBRASRD	Substation Distribution Automation Bay DE Install ASR Computer: Bay DE	132,725	121,397
	UDLNRDA1C	Distribution Automation: Christiana District	1,036,068	184,726
	UDSNRD8MD	Scada/RTU Upgrade NC DE Dist Sub	188,184	57,605
	UDSNRDA1C	Distribution Automation: Christiana Substations	1,453,506	3,363,047
	UOINRASRD	Install ASR Computer: NC DE	187,498	167,057
	UORBOBRIM	MI Comm Work - Collector to Data Network	271,455	64,175
	UORBODA1M	Millsboro Comm Work - Install Radios in Line Equip	263,663	-12,552
	UORBORBSM	BBW Base Station - Install Millsboro	358,121	14,964
	UORBORBTM	Millsboro Comm Work - Upgr Radios in Line Equip	0	
	UORBORCPM	Millsboro: Install Radio Control for Cap Contrl	0	
	UORBORSSM	Millsboro Sub Subscriber - BBW	272,775	
	UORNOBR1C	CH Comm Work - Collector to Data Network	258,206	286,224
	UORNODA1C	Christiana Comm Work - Install Radios in Line Equipmen	429,811	173,459
	UORNORBSC	BBW Base Station - Install Christiana	254,789	32,669
	UORNORBTC	Christiana Comm Work: Upgrade Radios in Line Equip	0	
	UORNORCPC	Install Radio Control for Cap Cntrl-Christiana	0	
	UORNORSSC	Christiana - Sub Subscriber - BBW	439,608	114,852
		TOTAL	6,761,404	5,890,246
٠	UDLBRM63M	Millsboro: Feeder Reliability Improvement	2,568,671	2,647,888
•	UDLBRM4MK	Millsboro Priority Feeder Rebuild	0	
	UDLNRM4CK	Priority Feeder Rebuild: Christiana	0	
	UDLNRM63C	Christiana Feeder Reliability Improvements	2,803,236	2,182,214
•	UDSBRM61D	Bay - DE Sub Comprehensive Reliability Impvts	1,505,615	1 000 013
	UDSNRM61D	NC - DE Sub Comprehensive Reliability Impvts	1,575,271	1,982,713
		TOTAL	8,452,793	6,812,816
	·		3,080,886	1,982,713
•		•	5 374 007	4,830,102
LOAD			3,371,901	4,000,102
LUMU	UDLBLFP2	Five Points - Construct New Feeder		
-	UDLBLM7M	Millsboro - Feeder Load Relief	1,355,764	886,425
	UDLBLM7M.1	Millsboro - Peeder Load Reflet Millsboro - Distribution VAR Correction	1,333,104	000,723
	UDLBLM7M.12	Cedar Neck DE0531: Reconductor Downstream Conductor	nr i	<u> </u>
	UDLBLM7M.13	Cedar Neck DE0531: Reconductor Getaway		
	UD-DLW /W.15	Cedar Neck DE0531: Reconductor Getaway	i i	

Install Dist Regulators- Fdr Load Relief - Millsboro

UDLBLM7M.2

UDLBLM7M.6	Five Points DE0528: R/C & Install Reclosers		
UDLBLM7M,7	Cedar Neck DE0532: Double-leg Getaway&Install Reclose	ers	-
UDLBLM7M,21	Five Points DE0527: Reconductor Downstream		
UDLBLM7M.22	Midway DE0510: Install Recloser to Increase Relay Load I	imit	
UDLBLM7M.28	Felton DE2247: Install Switch for New Normal Open		
UDLBLMGI	Magnolia Area 230/25kV Substation: Build two new 25kV	Distribution Lines	
UDSBLFP1	Five Points- T2 Add New Brkr		
UDSBLM72A	Clayton Sub Replace T3	697,263	557,815
UDSBLM72B	Cedar Neck T1: Upgrade Bus	68,854	36,003
UDSBLM73A	Millsboro T2: Upgrade Disconnect Switch	12,305	
UDSBLM73B	Midway: Install 2nd 69/12kV Transformer		
UDSBLM76A	Cedar Neck: Install 2nd 69/12kV Transformer		400,644
UDSBLM7D	Future Projects Dist Sub Bay DE		
UDSBLMG2	Magnolia Area 230/25kV Substation-Build New Substation		
UDLNLM7C	Christiana - Feeder Load Relief	73,683	
UDLNLM7C.10	Christiana - Distribution VAR Correction		71,787
UDLNLM7C.11	Bear DE0750: Reconductor the Getaway	0	:
UDLNLM7C.17	Mermaid DE0745: Reconductor Getaway/Add Recloser	0	
UDLNLM7C.2	Install Dist Regulators - Fdr Load Relief- Christiana	0	
UDSNLM72A	W. Wilmington Sub Bus & Brkr Upgrade	512,451	
UDSNLM7D	NC-DE Future projects	0	329,256

2,720,320

2,281,930

Company

Project Name Short Description

2013 As of 3-31-13

DPL-DE

PRI FDR

UDLBRM4MF	Millsboro - Priority Circuit Improvement		607,843
UDLNRM4CF	Christiana - Priority Ckt Improvement		204,098
		TOTAL	811.941

URD

UDLBRM4MC	Millsboro - Replace Deteriorated URD Cable	100,662
UDLBRM4MD	Millsboro - Planned URD Cable Replacement	555,014
UDLNRM4CC	Christiana - Replace Deteriorated URD Cable	185,577
UDLNRM4CD	Christiana - Planned URD Cable Replacement	578,303

TOTAL 1,419,556

DA

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UDLBRDAID	Distribution Automation - Bay DE	
UDSBRDAID	Substation Distribution Automation Bay DE	-7,935
UOIBRASRD	Install ASR Computer: Bay DE	14,547
UDLNRDAIC	Distribution Automation: Christiana District	49,630
UDSNRD8MD	Scada/RTU Upgrade NC DE Dist Sub	·
UDSNRDAIC	Distribution Automation: Christiana Substations	749,202
UOINRASRD	Install ASR Computer: NC DE	6,663
UORBOBRIM	MI Comm Work - Collector to Data Network	
UORBODAIM	Millsboro Comm Work - Install Radios in Line Equip	
UORBORBSM	BBW Base Station - Install Millsboro	432
UORBORBTM	Millsboro Comm Work - Upgr Radios in Line Equip	
UORBORCPM	Millsboro: Install Radio Control for Cap Contrl	
UORBORSSM	Millsboro Sub Subscriber - BBW	106,431
UORNOBRIC	CH Comm Work - Collector to Data Network	99,281
UORNODAIC	Christiana Comm Work - Install Radios in Line Equipment	9,914
UORNORBSC	BBW Base Station - Install Christiana	542,993
UORNORBTC	Christiana Comm Work: Upgrade Radios in Line Equip	
UORNORCPC	Install Radio Control for Cap Cntrl-Christiana	
UORNORSSC	Christiana - Sub Subscriber - BBW	567,808

TOTAL

2,138,966

UDLBRM63M	Millsboro: Feeder Reliability Improvement	997,360
UDLNRM63C	Christiana Feeder Reliability Improvements	233,765
UDSBRD9SF	IR: Millsboro Sub - T1 Replacement	139,428
UDSBRD9SG	IR: Nr Seaford Sub - T1 & T2 Replacement	
UDSBRD9SJ	IR: Kent Sub - T2 Replacement	
UDSBRD9SL	IR: Bethany Sub - T2 Replacement	
UDSBRM61D	Bay - DE Sub Comprehensive Reliability Impvts	
UDSNRD8KD	DPL DE - Switchgear replacements	
UDSNRD9KA	Milford Crossroads Sub - Switchgear replacements	19,410
UDSNRD9KB	Bear Sub - Switchgear replacements	17,656
UDSNRD9KC	Naamans Sub - Switchgear replacements	0
UDSNRD9KD	Mermaid Sub - Switchgear replacements	0
UDSNRD9KE	West Wilmington Sub - Switchgear replacements	0
UDSNRD9KF	Churchmans Sub - Switchgear replacements	0
UDSNRD9KG	Milltown Sub - Switchgear replacements	0
UDSNRD9KH	Sunset Lake Sub - Switchgear replacements	0
UDSNRD9KI	Tallyville Sub - Switchgear replacements	0
UDSNRM61D	NC - DE Sub Comprehensive Reliability Impvts	750,309

TOTAL 2,157,929 926,803

1,231,126

UDLBRM8BA	Greenwood: 4-25kV Conversion	555,788
UDLBRM8BB	Wyoming-Convert to 25kV Cir 2233 (Phase II)	186,571
		742 360

LOAD

UDLBLFP2	Five Points - Construct New Feeder	0
UDLBLM7M	Future Projects Dist Line Millsboro	0
UDLBLM7M	Millsboro - Feeder Load Relief	38,665
UDLBLM7M.1	Millsboro - Distribution VAR Correction	
UDLBLM7M.13	Rehoboth Sub: Move Feeder 521 from T1 to T2	
UDLBLM7M.2	Install Dist Regulators- Fdr Load Relief - Millsboro	·
UDLBLM7M.6	Five Points DE0528: R/C & Install Reclosers	0
UDLBLMG1	Magnolia Area 230/25kV Substation: Build two new 25kV Distributio	0
UDSBLFP1	Five Points- T2 Add New Brkr	0
UDLBLMW2	Midway: Extend New Feeder	0
UDSBLM72A	Clayton Sub Replace T3	48,280
UDSBLM73A	Millsboro T2: Upgrade Disconnect Switch	1,727
UDSBLM73B	Midway Substation: Install New Transformer	
UDSBLM73C	Harbeson Sub: Upgrade T-1	262,180

UDSBLM76A	Cedar Neck: Install 2nd 69/12kV Transformer	
UDSBLM7D	Future Projects Dist Sub Bay DE	0
UDSBLMG2	Magnolia Area 230/25kV Substation-Build New Substation	0
UDLNLCBC2	Mount Pleasant T2: Extend a New 25 kv Fdr	0
UDLNLM7C	Future Projects Dist Line Christiana	0
UDLNLM7C	Christiana - Feeder Load Relief	
UDLNLM7C.10	Christiana - Distribution VAR Correction	
UDLNLM7C.11	Bear DE0752: Reconductor the Getaway	
UDLNLM7C.17	Метmaid DE0745: Reconductor Getaway/Add Recloser	0
UDLNLM7C.2	Install Dist Regulators - Fdr Load Relief- Christiana	0
UDLNLM7C.21	Churchman's DE0256: Reconductor Getaway	0
UDSNLM72A	W.Wilmington Sub bus and breaker upgrade	329,418
UDSNLM7D	NC-DE Future projects	0

				2		7,540	36,975,622	516,000	9,162		andy.	,350				- Indiana de la companya de la compa			_
				2012		12,627,540	36,97	51	50,		low is for S	5,126,350							
	nment B			2011		9,601,683	29,901,140	482,443	39,985,266		2, the accural be	"Q"			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				
13mm	AG-REL-3 Attachment B		s (NO REP)	2010		14,260,410	29,035,523	6,430,569	49,726,502		NOTE>> For 2012, the accural below is for Sandy.	b for *** in Col "D"	And the first transfer of the first transfer						
			013 Actuals	2009		11,150,572	25,875,467	13,386,180	50,412,219			See Reliaiblity Tab for							
			PHI 2007 - 2013 Actual	2008		18,169,398	23,562,456	4,727,845	46,459,700					The state of the s					
				2007		23,313,180	15,738,278	1,407,332	40,458,789	-				2013	as of 3/31/2013	3,408,389	2,785,554	111,935	
				CORE	Distribution	Customer Driven	Reliability	Load	Total					CORE	Distribution	Customer Driven	Reliability	Load	
					DPL-DE				, and a description						DPL-DE				

Š	Co txtP txtPi txtPFI txtPl Project Name	oject Name	Short Description	ISD to	滋	2007	2008	2009	2010	2011	2012	TOTAL
ĮĮ,	RDI	RDLBHW2	Millsboro Highway Relocations-Blanket	12/31/2009		-67,849	33,360		4,717	-		-29,772
z	RDI	RDLBNL2	New Load - Millsboro (Approved 2005: 6,109,220)	12/31/2009							144	144
z	RDI	RDLBNL2	New Load - Millsboro (Approved 2005: 6,109,220)	12/31/2009	-	962,085	27,123	479	-44,472			945,215
Σ	IOS	SDLBCHOM	Millsboro - Highway Relocations	12/31/2010	-				-13,471		1,198,279	1,184,808
Z	IGD	UDLBCMVD	Bay DE - Replace MV Streetlights	12/31/2015	-			, ;		98,835		98,835
z	IdD	UDLBCMV	Bay Reg: Replace Murcury Vapor St Lits	12/31/2013	-	0	141,751	61,152	249,919	217,131		669,953
z	īg	UDLBCMVD	Bay Reg: Replace Murcury Vapor St Lits DE	12/31/2013	-	0					339,225	339,225
	Ğ	UDLBCLEDM	Streetlights - LED Pilot Millsboro	12/31/2010					40,894	540		41,434
[I.,	ĬĠ	UDLBCH0M	Millsboro - Highway Relocations	12/31/2013	-	456,100	102,953	-243,840	196,845	513,936		1,025,994
Z	Idn	UDLBCSIM	Millsboro - New Services & St Lights	12/31/2013		4,604,160	4,777,391	3,383,542	2,452,978	1,863,180	2,413,229	19,494,480
z	ומח	UDLBCS2M	Millsboro - Residential Infrastructure	12/31/2013	-	3,095,720	1,674,340		474,692	529,379	348,384	6,950,332
Z	IQD	UDLBCS3M	Millsboro - Facility Relocations	12/31/2013	-	281,872	147,349	246,027	553,898	197,923	228,213	1,655,282
						9,332,088	6,904,267	4,275,177	3,916,000	3,420,924	4,527,474	32,375,929
	The first to the state of the s											0
Z	RDI	RDLNMR1	Meter Blanket-New Castle	12/31/2012	-	4,491,670	3,439,614	80,500	-3,160			8,008,624
Z	RDI	RDLNMR3	Residential Advanced Metering	12/31/2005	-	0	0					
Z	RDI	RDLNNL1	New Load - Christiana (Approved 2005: 8,422,914)	3/31/2009		1,569,422	-594,979	-294,723	-336,297	-1,691		341,732
H	RDI	RDLNHWI	Christiana District-Highway Blanket	12/31/2009		111,392	-696,730	-21,851				-607,189
D	RDI	RDLNUP82	JP Morgan Bank Back-Up Feeder (R)	8/1/2008		253,434	217,142		-352,164			118,412
н	RDI	RDLNUP213	Edgemoor Circuit 208 Rebuild	5/31/2005	1.01	0	0			•		
H	AD47 A-Pri RDI	RDLNUP254	Edgemoor: Upgrade DE0204 & DE0208 for JPMC (Governo	12/31/2008	,	0	0					0
≱	RDS	RDSNUP64	Edgemoor 69kV Substation Bus work for BankOne	3/31/2004 1	1.01	0	0					
≱	RDS	RDSNUP84	Edgemoor New 138/12kV transformer for Bank One	3/31/2004	1.01	0	0					
D	RDS	RDSNUP87	Keeney EHV Substation work for BankOne	3/31/2004	1.01	0	0					•
Þ	RDS	RDSNUP125	Edgemoor Plant: Upgrade terminal on DE0208 for JPMC ®	5/31/2009	-	0	237,204					237,204
Z	TOS SDI	SDLNCH0C	Christiana - Highway Relocations	12/31/2010					74,399	468,858	-379,438	. 163,819
z	מח	UDLNCACCR	DPL Reg: New Load Accuals & Emerg	12/31/2013	-	0						0
-	IGN	UDLNCACRD	New Load Accruals & Emerg DPL DE	12/31/2015		0	0			3,146,440	-253,428	2,893,012
-	Idn	UDLNCLEDC	Streetlights - LED Pilot Christiana	12/31/2009	-	0	0	1,683	29,589	527		31,799
	QD	UDENCM1C	Dist Lines - Customer Driven Requests - Christiana	12/31/2012	-	0	39,805	109,777	3,901,036		82,772	4,133,390
			•		_							

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-2,776,090	4,695,462	0	1,436,162	289,166	1,118,764	1,217,617	11,574	6,650,827	21,915,578	5,730,856	936,133	100,000	56,746,854	0	89,122,783	0	#REF!	0
	1,082,824	- 1	237,434		-43,191	607,179		2,201,989	3,705,540	1,001,450	-143,065		8,100,066		12,627,540		#REF!	
-2,776,091	670,679		1,198,728		45,939	610,438		530,861	1,765,165	632,938	-112,033		6,180,758		9,601,683		#REF!	
	1,342,309				403,783		11,574	1,133,747	2,986,635	751,207	401,750		10,344,410		14,260,410		#REF!	
	1,599,650				259,727			306,733	3,657,409	993,684	182,806		6,875,395		11,150,572		#REF!	
:	0	0	0	289,166	452,506			1,543,284	4,982,336	987,373	168,411	100,000	11,265,132		18,169,398		#REF!	
	0	0	0	0	0			934,213	4,818,493	1,364,204	438,264	0	13,981,092		23,313,180		#REF!	
	p=4	ы		-1		-	-	-	-		-							
12/31/2011	12/31/2013	12/31/2013	12/31/2015	12/31/2008	12/30/2013	12/31/2015	5/31/2010	12/31/2013	12/31/2013	12/31/2013	12/31/2013	11/1/2008						
JPMC (Gov Printz): Parallel DE0204 & DE0208	Meter Blanket - New Castle Reg	Meter Blanket - AMI - DPL	Meter Blanket - AMI NC DE	Meter Load study	New Castle Reg: Replace Murcury Vapor St Lits	Mercury Vapor St Lights Replace - NC DE	DE0161 Transfer Distribution to new poles City of NC	Christiana - Highway Relocations	Christiana - New Services & St Lights	Christiana - Residential Infrastructure	Christiana - Facility Relocations	Edgemoor Sub: Install Spare Tr for JPMC						
UDLNCM7C.4	UDLNCMR1	UDLNCMR2	UDLNCMR2D	UDLNCMR3	UDLNCMV	UDLNCMVD	UDLNCNC1	UDLNCHOC	UDLNCSIC	UDLNC\$2C	UDLNCS3C	UDSNCM7C2		:				
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	TOTAL	1,722,766	617,994	0	1,431,763	179,150	0	447,439	111,733	486,845	0	103,629	0	0	0	27,268	0	0	0	11,735	-76,007	-361,108	2,135,979	113,846	0		966,926	40,981	11,011,666	504,053	1,484,893
	2012											0	0	0	0	0	0	0		11,735	-76,007	-361,108	2,135,979	113,846				35,907	2,143,782	145	
	2011											0	0	0	0	0	0	0									45,377	5,074	2,181,352	48,133	192,921
	2010											0	0	0	0	0	0	0	0				•	0	0		728,952		2,752,585	201,497	219,136
	2009				3,176							0	0	0	0	0	0	-3,860	0					0	0		191,582		2,276,450	180,586	706,600
	2008	247,105	45,949	0	183,272	42,487	0	49,340	0	157,479	0	0	0	0	0	0	0	-18,335	0	0	0	0	0	0	0	36 T. 6	1,016		1,657,497	73,692	366,235
	2007	1,475,661	572,045	0	1,245,315	136,663	0	398,099	111,733	329,366	0	103,629	0	0	0	27,268	0	22,195	0	0	0	0	0	0	0		0			0	0
	tx D	-		-	-	-	-	0.81	-		-		1.15	. part	-			-	_	1.01	1.0.1	10.1	1.00	1	1		-		,	,	-
	ISD	12/31/2008	12/31/2012	12/31/2012	12/31/2008	12/31/2008	12/31/2005	12/31/2012	6/30/2006	12/31/2008	12/31/2012	12/31/2008	12/31/2008	12/31/2008	12/31/2012	12/31/2008	12/31/2012	7/1/2009	5/31/2010	12/30/2013	12/30/2013	12/30/2013	12/31/2017	12/31/2013	12/31/2013		12/31/2012	12/31/2015	12/31/2013	12/31/2013	12/31/2013
	Short Description	Emergency Restoration Blanket - Millsboro	Millsboro - Planned URD Cable Replacements	Avain Protection - Improvements	Millsboro - Misc Distribution Improvement Blanket	Bay Region: Reject Pole Replacement	Millsboro Misc. Distribution Improvement Blanket	Millsboro District-Replace Deteriorated BD Cable	Country Club Estates Cable Replacement	Priority Ckt Improvements- Bay Reg	Bay Region - Install DA Switches & Reclosers	Bay Distribution Substation Emergency (Formerly RDSBIR4)	Bay Distributrion Planned Improvements	Distribution Miscellaneous Relay Blanket-Bay	Bay Reg - Misc Sub Equipment Retirement-Distribution	Bay Distribution Substation Bushing Replacements	Upgrade SCADA/RTU Capability	Bay Reg - Substation SPCC Plans	Bay Region Purchase 69/12kV Mobile Unit	Bay DE: Removal & Salvage of Capital Equip	Bay DE: Salvage Scrap Wire/Cable	Bay DE: Salvage Scrap Wire/Cable	BAY-DE - Accural for Reliability	Ches-Ply Lines - work for T1 Replac	UF Distribution Automation Bay Region		Bay Reg: Misc Reliability Improvements	Bay MI - Misc Reliability Impvts	Emergency Restoration Blanket - Millsboro	Bay Reg: Deteiorated / Reject Pole Replac	Bay Reg: Priority Ckt Improvements
	txtP txtF txtPFI txtF Project Name	RDLBEMG2	RDLBR26	RDLBIR33	RDLBMS2	RDLBMS6	RDLBMS105	RDLBUP60	RDLBUP68	RDLBUP122	RDLBUP180	RDSBEMGI	RDSBIR3	RDSBIR5	RDSBIR22	RDSBIR26	RDSBUP153	RDSBUP165	RDSBUP183	UDLBMS5D	UDLBOSVSD	UDLBOSVSDE	UDLBRACRD	UDLBRCP2	UDLBRDA1A		UDLBRMZIN	UDLBRM2M2	UDLBRM3MI	UDLBRM4E	UDLBRM4F
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Millsboro - Distribution Pole Repl 12/31. Millsboro District - Recloser Replacement 12/31.	0000	0.000	ooro A.	ooro ments	Doro T. C.	nents	orro E. C.	nents ents	nents ents	nents ents	ments ents ents	ments sents Ents	ments ents ents	ments ents ents acement barger Replacement	ments ents ents acement barger Replacement 3 3	ments ents cents acement harger Replacement acements acements bacements bace	ments wents tharger Replacement acements acements s s s s s s s s s s s s	ments sents ents lE tharger Replacement acements acements s s s s s s s s s s s s	ments wents ents acement lacements DE s s s
UDLBRM4ME Millsboro - Dist	H & D M E	H 2 7 2 &		UDLBRM4ME UDLBRM4MI UDLBRM4MIU UDLBRM4MIU UDLBRM4MIW	ILBRM4ME ILBRM4MI ILBRM4MIU ILBRM4MIU ILBRM4MIW ILBRM5MA	ILBRM4ME ILBRM4MI ILBRM4MIU ILBRM4MIV ILBRM4MIV ILBRM5MA	LBRM4ME LBRM4MI LBRM4MI LBRM4MI LBRM5MA	ILBRM4ME ILBRM4MI ILBRM4MI ILBRM4MI ILBRM5MA ILBRM5MA	LBRM4ME LBRM4MI LBRM4MI LBRM4MI LBRM5MA LBRM5MA LBRM5MA LBRM5MA LBRM5MA LBRM5MA LBRM5MA	LBRM4ME LBRM4MI LBRM4MI LBRM4MI LBRM5MA LBRM5MA SBRD71 SBRD71 SSBRD71D SSBRD71D SSBRD8A	LBRM4ME LBRM4MI LBRM4MI LBRM4MI LBRM5MA LBRM5MA SERD71 SSBRD71 SSBRD71D SSBRD8A SSBRD8A SSBRD8A SSBRD8A SSBRD8AB	LBRM4ME LBRM4MI LBRM4MI LBRM4MI LBRM5MA LBRM5MA SBRD71 SBRD71 SBRD71 SBRD8A SBRD8A SBRD8A SBRD8A SBRD8A SBRD8A SBRD8AD SBRD8BD	LEBRM4ME LEBRM4MI LEBRM4MI LEBRM4MI LEBRM4MI LEBRM4MI LEBRM5MA LEBRM5MA LEBRM5MA LEBRM5MA LEBRM5MA LEBRM4MI LEBRM5MI LEBRM4MI LEBRM4MI LEBRM4MI LEBRM5MI LEBRM4MI LEBRM5MI LEBRM4MI LEBRM4MI LEBRM5MI LEBRM4MI LEBRM5MI LEBRM4MI LEBRM5MI LEBRM4MI LEBRM5MI LEBRM4MI LEBRM4MI LEBRM5MI LEBRM4MI LEBRM5MI LEB	LERMAME LERMAMI LERMAMI LERMAMI LERMAMI LERMAMI LERMAMI SERD71 SERD71 SERD8A SERD8A SERD8A SERD8A SERD8A SERD8A SERD8A SERD8A SERD8B	ILBRM4ME ILBRM4MI ILBRM4MI ILBRM4MI ILBRM5MA ILBRM5MA ILBRM5MA ILBRM5MA ILBRM5MA ILBRM5MA ILBRM5MA ILBRM5MA ILBRM4MI ILBRM4	LEBRM4ME LEBRM4MI LEBRM4MI LEBRM4MI LEBRM4MI LEBRM4MI LEBRM4MI SEBRD71 SEBRD71 SEBRD8A SEBRD8B	ILBRM4ME ILBRM4MI ILBRM4	LEBRMAME LEBRMAMI LEBRMAMI LEBRMAMI LEBRMAMI SEBRD71 SEBRD71 SEBRD8B SEBRD8F SEBRD8F	ILBRMAME ILBRMAMI ILBRMA
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	Customer Reliability Improvement - Millsboro	Customer Reliability Improvement - Millsboro MI - Replac URD Secondary Cables MI - Instal Tree Wire/Spacer Cable	Customer Reliability Improvement - Millsboro MI - Replac URD Secondary Cables MI - Instal Tree Wire/Spacer Cable IR - Millsboro- HRD Infastructure Replacements	UDLBRM4MM Customer Reliability Improvement - Millsboro UDLBRM4MU MI - Replac URD Secondary Cables UDLBRM4MW MI - Instal Tree Wire/Spacer Cable UDLBRM5MA IR: Millsboro- URD Infastructure Replacements	PLBRM4MM Customer Reliability Improvement - Millsboro MI - Replac URD Secondary Cables MI - Instal Tree Wire/Spacer Cable LBRM5MA IR: Millsboro- URD Infastructure Replacements	PLBRM4MM Customer Reliability Improvement - Millsboro PLBRM4MW MI - Replac URD Secondary Cables MI - Instal Tree Wire/Spacer Cable PLBRM5MA IR: Millsboro- URD Infastructure Replacements	PLBRM4MM Customer Reliability Improvement - Millsboro PLBRM4MW MI - Replac URD Secondary Cables PLBRM4MW MI - Instal Tree Wire/Spacer Cable IR: Millsboro- URD Infastructure Replacements RSBRD71 Bay Dist Substation Emergency Repalcements	PLBRM4MM Customer Reliability Improvement - Millsboro PLBRM4MU MI - Replac URD Secondary Cables PLBRM4MW MI - Instal Tree Wire/Spacer Cable PLBRM5MA IR: Millsboro- URD Infastructure Replacements PSBRD71 Bay Dist Substation Emergency Repalcements Bay Dist Sub Emergency - DE	PLBRM4MM Customer Reliability Improvement - Millsboro PLBRM4MW MI - Replac URD Secondary Cable PLBRM5MA MI - Instal Tree Wire/Spacer Cable PLBRM5MA IR: Millsboro- URD Infastructure Replacements SBRD71 Bay Dist Substation Emergency Repalcements SBRD71 Bay Dist Sub Emergency - DE SBRD71D Bay Dist Sub Planned Improvements	PLBRM4MM Customer Reliability Improvement - Millsboro PLBRM4MU MI - Replac URD Secondary Cables PLBRM4MW MI - Instal Tree Wire/Spacer Cable PLBRM4MW MI - Instal Tree Wire/Spacer Cable RR: Millsboro- URD Infastructure Replacements PSBRD71 Bay Dist Substation Emergency Repalcements SBRD71D Bay Dist Sub Emergency - DE SSBRD8A SSBRD8A Bay Dist Sub Planned Improvements Bay Dist Sub Planned Improvements Bay Dist Sub Planned Improvements Bay Dist Sub Planned Improvements	1. BRM4MM MI - Replac URD Secondary Cables I. BRM4MW MI - Instal Tree Wire/Spacer Cable MI - Instal Tree Wire/Spacer Cable I. BRM5MA IR: Millsboro- URD Infastructure Replacements SBRD71 Bay Dist Substation Emergency Repalcements SBRD71D Bay Dist Sub Flanned Improvements SBRD8AD SBRD8AD Bay Dist Sub Planned Improvements DE SBRD8AD SBRD8AD Dist Miscellaneous Relay Blanket - Bay	PLBRM4MM Mi - Replac URD Secondary Cables Mi - Instal Tree Wire/Spacer Cable Mi - Instal Tree Wire/Spacer Cable R: Millsboro- URD Infastructure Replacements R: Millsboro- URD Infastructure Replacements Bay Dist Substation Emergency Repalcements SBRD71D Bay Dist Sub Emergency - DE SBRD71D Bay Dist Sub Planned Improvements SBRD8AD SBRD8AD Dist Miscellaneous Relay Blanket - Bay DE SBRD8BD Dist Miscellaneous Relay Blanket - Bay DE	PLBRM4MM Customer Reliability Improvement - Millsboro PLBRM4MM MI - Instal Tree Wire/Spacer Cable PLBRM4MW MI - Instal Tree Wire/Spacer Cable RE: Millsboro- URD Infastructure Replacements PSBRD71 Bay Dist Substation Emergency Repalcements PSBRD71 Bay Dist Sub Flanned Improvements PSBRD8A Bay Dist Sub Planned Improvements PSBRD8A Bay Dist Sub Planned Improvements DE PSBRD8AD Bay Dist Sub Planned Improvements DE PSBRD8BD Dist Miscellaneous Relay Blanket - Bay DE PSBRD8BD Dist Miscellaneous Relay Blanket - Bay DE PSBRD8BD Dist Miscellaneous Relay Blanket - Bay DE PSBRD8BC Bay Distribution Substation Breaker Replacement	PLBRM4MM Customer Reliability Improvement - Millsboro PLBRM4MW MI - Replac URD Secondary Cables PLBRM4MW MI - Instal Tree Wire/Spacer Cable PLBRM5MA MI - Instal Tree Wire/Spacer Cable R. 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Millsboro- URD Infastructure Replacements SBRD71 Bay Dist Substation Emergency Repalcements SBRD71D Bay Dist Sub Flanned Improvements SBRD8A Bay Dist Sub Planned Improvements SBRD8B Bay Dist Sub Planned Improvements SBRD8B Dist Miscellaneous Relay Blanket - Bay SBRD8B Dist Miscellaneous Relay Blanket - Bay DE SBRD8C Bay Distribution Substation Breaker Replacement SBRD8C Bay Distribution Substation Battery and Charger Replacement SBRD8E Bay Dist Sub Battery & Charger Replacement SBRD8E Bay Distribution Substation Bushing Replacements	LBRM4MM Customer Reliability Improvement - Milsboro LBRM4MW MI - Replac URD Secondary Cables LBRM4MW MI - Instal Tree Wire-Spacer Cable LBRM5MA IR: Milsboro- URD Infastructure Replacements SBRD711 Bay Dist Sub Emergency - DE SBRD711 Bay Dist Sub Flanned Improvements SBRD71D Bay Dist Sub Planned Improvements SBRD8AA Bay Dist Sub Planned Improvements SBRD8AB Dist Miscellaneous Relay Blanket - Bay DE SSBRD8BD Dist Miscellaneous Relay Blanket - Bay DE SSBRD8BB Dist Miscellaneous Relay Blanket - Bay DE SSBRD8BB Bay Distribution Substation Battery and Charger Replacement SSBRD8E Bay Distribution Substation Bushing Replacements SSBRD8F Bay Distribution Substation Bushing Replacements SSBRD8F Bay Distribution Substation Bushing Replacements SSBRD8F Bay Distribution Substation Bushing Replacements	1.BRM4MM Oustomer Reliability Improvement - Milsboro 1.BRM4MM MI - Instal Tree Wire/Spacer Cable LBRM5MA MI - Instal Tree Wire/Spacer Cable LBRM5MA MI - Instal Tree Wire/Spacer Cable CERM5MA MI - Instal Tree Wire/Spacer Cable RE. Milsboro - URD Infastructure Replacements SBRD71 Bay Dist Substation Emergency Repalcements SBRD71D Bay Dist Sub Flanned Improvements DE SSBRD8A SBRD8BB Dist Miscellaneous Relay Blanket - Bay DE SSBRD8BB Dist Miscellaneous Relay Blanket - Bay DE SSBRD8BB Dist Miscellaneous Relay Blanket - Bay DE SSBRD8BB SSBRD8BB Dist Miscellaneous Relay Blanket - Bay DE SSBRD8BB SSBRD8BB Dist Miscellaneous Relay Blanket - Bay DE SSBRD8BB SSBRD8BB Bay Distribution Substation Breaker Replacement SSBRD8F Bay Distribution Substation Bushing Replacements SSBRD8F Bay Distribution - PHI Space Transformers	LERNAAMU Customer Reliability Improvement - Milsboro LERNAAMU MI - Instal Tree Wire/Spacer Cable LERNAAMA MI - Instal Tree Wire/Spacer Cable LERNAAMA R: Milsboro- URD Infastructure Replacements RSBRD71 Bay Dist Sub Emergency Repalcements SSBRD8A Bay Dist Sub Planned Improvements DE SSBRD8A Bay Dist Sub Planned Improvements DE SSBRD8AD Dist Miscellaneous Relay Blanket - Bay DE SSBRD8B Dist Miscellaneous Relay Blanket - Bay DE SSBRD8C Bay Distribution Substation Brateay and Charger Replacement SSBRD8E Bay Distribution Substation Bushing Replacements SSBRD8E Bay Distribution - PHI Spare Transformers	LERNAHM Customer Reliability Improvement - Millsboro LERNAHMW MI - Repiac URD Secondary Cables LERNAHMW MI - Instal Tree Wire/Spacer Cable R. Millsboro - URD Infastructure Replacements SERDATI Bay Dist Sub Famergency - DE SERDAR SERDAR Bay Dist Sub Planned Improvements DE SERDAR SERDAR Bay Dist Sub Planned Improvements DE SERDAR SERDAR Bay Dist Sub Planned Improvements DE SERDAR SERDAR Bay Dist Miscellaneous Relay Blanket - Bay DE SERDAR SERDAR Bay Distribution Substation Breaker Replacement SERDAR SERDAR Bay Distribution Substation Bratkery and Charger Replacement SERDAR SERDAR Bay Distribution Substation Bushing Replacements SERDAR Bay Distribution Substation Bushing Replacement SERDAR SERDAR Bay Distribution Substation Bushing Replacement SERDAR SERDAR Bay Distribution - PHI Space Transformers SERDAR Bay Distribution - PHI Space Transformers SERDAR Bay Region Puchase Mobile Transformers

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30,383			-3,826	954,712	234,778		326,197	24,002	49,009			222,668	947,199	137,377				42,781,244	
				36,527			236,166	24,002	49,009			215,830	802,679	137,377			0	7,923,718	
				11,894	0		88,750					0	144,520	6				4,521,272	
0	0	0		288,413	0	0	1,281				***************************************	6,838						9,199,520	
30,383		0	-3,826	403,254	234,778	0	0	0	0			0	0	0				8,793,792	
0	0	0	0	214,623	0	0	0	0	0			0	0	6			0	7,920,968	
0	0	0	0	0	0	0	0	0	. 0		100	0	0	0			0	4,421,974	
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12/31/2013	12/31/2013	0102/1ε/21	12/31/2013	12/31/2010	12/31/2012	12/31/2008	5/31/2011	5/31/2011	5/31/2011			12/31/2013	5102/1ε/21	12/31/2013			5102/18/21		ŕ
Upgrade SCADA/RTU Capability	Upgrade SCADA/RTU Capability DE	Cyber Security Improvs - Bay Reg - Disrt	Bay Reg; Misc Dist Sub Equipment Retirement	Bay Reg: SPCC Plans - Add Sub Containment	Bay Reg SPCC Complience: Bkr Repl - Dist	Bay Reg: Positron Replacement	Bay Region: Purchase Mobile Unit Trailer & Cables	Sussex Sub: Repiac failed T1 Transf	NERC Physical Security Bay DE Dist Subs			IR: Bay Substation Replace Deteriorated Dist Bkrs	Replace Deteriorated Dist Brkrs DE	Sussex Sub: Replac T1 Transf			Distribution Automation: Bay Substations		
UDSBRD8M	UDSBRD8MD	UDSBRD8N1	UDSBRD8P	UDSBRD8Q	UDSBRD8Q1	UDSBRD8SA	UDSBRD8SC	UDSBRD8SO	UDSBRD8VD	200		UDSBRD9D	UDSBRD9DD	UDSBRD9SO		Parties.	UDSBRDAID		
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24	~	-						· · · · · · · · · · · · · · · · · · ·			 								

Emergency Restoration Blanket-Christiana	Christiana District: Replace #2 ACSR Primary with 477 ACSR	N. Wilmington Sub: Convert 4kV to 12kV	IR: Rogers Road Sub: Convert 4kV to 12kV	Christiana - Planned URD Cable Replacements	IR: Christiana - URD Infrastructure Repalcements	CH- District Misc. Improvement Blanket	Tenth Street Sub: Convert 4kV to 12kV	Christiana - Replace Failed Cable
RDLNEMG1	RDLNIR13	RDLNIR14	RDLNIR15	RDLNIR27	RDLNIR29	RDLNMS1	RDLNUP56	RDLNUP121
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×	R	R	R	X.	R	×	I	2
0	S	S	S	S	S	S	S	S

1,054,584

10,750

3,408

125,016

254,500

660,910

0.25

12/31/2012

455

6/15/2009

1,672

390,993

392,210

2,680,585

-5,026

-16,035

998,855

1,702,791

12/31/2012

12/31/2008

-4,542

114,816

7,554,152

-200

42,228

59,109

7,453,015

12/31/2008

0

114,816

0.03

12/30/2008

12/30/2006

0.03

12/30/2008

4,542

12/31/2012

RDLNUP146	Old Kennett Road: Convert 4kV to 12kv	6/3/2008	0.22	0	0					0
RDLNUP199	Priority Circuit Impyts Christiana	12/31/2012	_	818,247	5,943					824,190
RDLNUP221	Milford Crossroad Ckt. 293 Reliability Improvement	12/31/2004	1.01	0	0					0
RDLNUP262	Christiana DistOld Kennett&Cntr Mtg 4/12 Conv	5/31/2009		112,935	802,845					915,780
RDSNEMCI	New Castle Substation Emergency (fomerly RDSNIR4)	12/31/2012	3	91,340	701,662	36,330	-26,145			803,187
RDSNIR3	Substation Planned Improvements - New Castle	12/31/2008	m	65,428	62,624	-657	0			127,396
RDSNIR5	Distribution Misc. Relay Blanket	12/31/2008		38,347	0	0	0			38,347
RDSNIR6	Old Christiana Sub: Retire (69kV)	12/31/2008		35,951	0					35,951
RDSNIR 18	New Castle Substation Misc Equipment Retirement-Distribution	12/31/2012	-	69,135	30,724	0	0			658'66
RDSNUP121	New Castle Reg - Substation SPCC Plans	12/31/2008	-	158,387	376,770	10,642	-43,074	-		502,726
UDLNMSSD	NC DE: Removal & Salvage of Capital Equip	12/30/2013	10:1	0	0				-1,661	-1,661
UDENOSVSD	NC DE: Salvage Scrap Wire/Cable	12/30/2013	1.01	0	0				-145,702	1.
UDLNRACRD	NC-DE - Accural for Reliability	12/31/2017	1.00	0	0				2,990,371	
ODINRBA	116 Distribution A telegraph on News Camble Rea	PROPULA	\ \$	9	2.0		445.224	8		\$ 0.00 pt
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UDLNRM21N	NC Reg: Misc Reliability Improvements	12/31/2011	-	0	0	76,060	1,083,024	85£,809	-8,651	1,758,791
UDLNRM3CI	Emergency Restoration Blanket-Christiana	12/31/2013		0	7,110,534	8,663,847	9,218,021	12,404,954	9,082,965	46,480,321
UDLNRM4CA	Misc Dist Improvement Blanket - Christiana	12/31/2013	F-4	0	.217,870	1,499,821	1,400,097	932,286	1,443,005	5,493,079
e de la companya de l		1								
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UDINRM4CE	Christiana District-Distrib Pole Replikeinf	12/31/2015		0				1,285,897	417,566	1,703,463
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UDLNRM4CJ	Christiana Distr- Replace Line Reclosers	12/31/2013	-	0	0	103,436	50,169		95,152	248,757
					97.55			200		
UDLNRM4CM	Customer Reliability Impvts-Christiana	12/31/2013	_	0	253,114	629,629	170,546	459,996	383,405	1,926,720
UDLNRM4CR	Wilmington Network Upgrade	12/31/2016	1.01	0	0	468,216	336,193	529,769	830,228	2,164,406
UDLNRM4CU	Install Tree Wire/Spacer Cable - Christiana	12/31/2012	~-	0	513,086	1,767,414	14,508			2,295,008
UDENRM4CV	CH - Install Rubber-Covered Secondary Wire	12/31/2009	-	0	173,495	147,794	184,133			505,422
UDLNRM4H	Avian Protection Improvements	12/31/2012	-	0	0					0
UDLNRM4K	NC Region : Priority Fdr Rebuild	12/31/2013	-	0	0)			0
UDLNRM5BA	IR: Rogers Road Sub: Convert 4kv to 12kv	12/31/2012		0	16,979	60,202	755,484	404,497	533,591	1,770,753

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UDLNRMSBC	Edgemoor - GM: Rebuild Dist Underbuild	12/31/2015	1	0				1,276	416,041	417,317
UDLNRMSND	NERC Line Upgrades -NC DE	12/31/2015	-	0	0			,		0
UDLNRMSSC	Christiana Sub: Replace Duct Bank	12/31/2015	-	0	0				201,865	201,865
UDLNRMSSD	R/C Circuit DE217	12/31/2015		0	0				10,231	10,231
UDLNRMSSE	Cable Replacemnt for New Switchgear	12/31/2015	p=4	0	0				699'LL	77,669
					44					
UDLNRM8BA	N. Wilmington Sub: Convert 4kv to 12kv	12/31/2008		0	458,693	918	37			459,648
UDLNRM8SA	Edgemoor: Transfer 12kV circuits to 138/12kV T6 transformer	12/31/2009	1.01	0	495,340	43,184				538,524
UDLNRM8SB	Edgemoor - Transfer 12kV circuits to new 69/12kV T7 transform	5/31/2011	1.01	0	943,865					943,865
UDLNRM8SE	Christiana DistrRebuild OH Rear Lot Dist. Sys	12/31/2012		0	0	13,625	3,150			16,775
UDLNRM8SG	Brandywine River Crossing Cable Installation	12/31/2010	1.01	0	0		247,714	365,363	-11,417	601,660
UDLNRM8SH	Churchmans - Replace Reclosers	12/31/2010	1.0.1	0	0					0
UDLNRM9SB	CH District Replace Steel Poles along 4th St. Wilm	12/31/2012	-	0	0	160,515	269,450	188,010	163,620	781,595
UDLNRM9SC	Montchanin Sub: Relocate 34kV and 12kV Circuits	12/30/2012	-	0	0			82,616	601,797	684,413
UDSNRD71	New Castle Substation Emergency	12/31/2012	-	0	41,363	92,110	110,772	-14,997	32,390	261,638
UDSNRD71D	NC DE: Dist Sub Emergency	12/31/2015	-	0			:	66,050	137,232	203,282
UDSNRD8A	Substation Planned Improvements - New Castle	12/31/2012	H-1	0	0	3,806	6,771	7,094		17,671
UDSNRD8AD	Substation Planned Improvements - New Castle DE	12/31/2012	П	0	0	-			75,304	75,304
UDSNRD8B	Distribution Misc. Relay Blanket	12/31/2012	-	0	99,038	29,206	48,623	·		176,867
UDSNRD8DA	Brookside - DPU Replacements	12/31/2008	-	0	107,046					107,046
UDSNRD8DB	New Castle - DPU Replacements	5/31/2009	-	0	1,954	244,141				246,095
UDSNRD8DC	West Wilmington - DPU & ITE51Y Replacements	5/31/2009	-	0	99,311	26,942			*	126,253
UDSNRD8DD	Churchmans & Miltown DPU replacements	5/31/2009		0	159,626	47,501				207,127
UDSNRD8E	New Castle Distrib Sub Battery & Charger Replacement	12/31/2012	-	0	66,570	58,561	70,625	9,085		204,842
UDSNRD8ED	NC DE: Dist Sub Battery & Charger Repl	12/31/2015	-	0				65,226	81,917	147,143
UDSNRD8F	New Castle Distribution Substation Bushing Replacement	12/31/2012	-	0	0	0	27,915	27,979	267,506	. 323,400
UDSNRD8FD	NC DE Dist Sub Bushing Repl	12/31/2015	-				5,533	138,781		144,314
UDSNRD8G	New Castle - PHI Spare Transformers	12/31/2014	-	0	2,056	4,307	1,872,198	753,673	2,057,635	4,689,869
UDSNRD8G1	New Castle - Purchase 138/69-12kv Mobile Tr	5/31/2012	1:01	0	0				353,024	353,024
UDSNRD8GD	New Castle DE - PHI Spare Transformers	12/31/2014	1:0:1	0	0			153,916	1,731,516	1,885,432

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UDSNRD8K	NC Reg: 15kv Switchgear Improvements	12/31/2012		0	0	260,958	10,666	27,148		298,772
UDSNRD8M	NC Upgrade SCADA/RTU Capability	12/31/2014	-				0			0
UDSNRD8N1	Cyber Security Improvs - NC Reg - Disrt	12/31/2010	1	0	0					0
UDSNRD8P	NC Reg: Misc Dist Sub Equipment Retirement	12/31/2013	-1	0	-7,236	-3,932	-973	-		-12,141
UDSNRD8PD	IR: NC DE Dist Sub Misc Equip Retire	12/31/2015	-				6,642	39,562	4,556	50,760
UDSNRD8Q	New Castle Reg: SPCC Plans Install Sub Containment	12/31/2011	, 4	0	981,462	981,462	1,004,744	236,994	25,780	3,230,441
UDSNRD8Q1	NC Reg SPCC Complience: Bkr Replc - Dist	12/31/2011	1	0	614,290	614,290	664,655	15,263		1,908,498
UDSNRD8RB	Old Kennett Road Substation - Cleanup and Retire	12/31/2009	1.01	0	0	36,450	-3,793			32,657
UDSNRD8RC	Tenth Street Substation - Cleanup and Retire	12/31/2013	1.01	0	0	11,938	3,872			15,810
UDSNRD8RD	Center Meeting Substation - Cleanup and Retire	12/31/2009	1.01	0	0	23,737	-3,793			19,944
UDSNRD8SA	Churchmans Recloser Removal	12/31/2008	1	0	0		77,410			77,410
UDSNRD8SB	Milford Crossroads: Replace T1 Transformer	12/31/2009	-	0	0	280,162		06		280,252
UDSNRD8SC	Bear Sub: Replace Failed T-3 Unit	12/31/2010					408,489	715,543	730,598	1,854,630
UDSNRD8SD	Christiana Sub: Replac 138/12kv T2 Unit	12/31/2011	1.01	0	0			417,853		417,853
UDSNRD8SE	Silverbrook Sub: Replace Failed T3	12/31/2011	1.01	0	0			2,039,218	823,079	2,862,297
UDSNRD8VD	NERC Physical Security: NC DE	12/31/2011	1.01	0	0				241,878	241,878
UDSNRD9A	IR: Rogers Road Substation - Cleanup and Retire	12/31/2011	1.01	0	0			,		0
UDSNRD9C	IR: New Castle Substation Spare Equipment	12/31/2014		0	0	·				0
UDSNRD9D	IR: New Castle Distrib Sub Breaker Replacement	12/3 1/2013	-	0	0	116,827	328,704	448,855		894,386
UDSNRD9DD	IR: NC DE Brkr Repl Dist Sub	12/31/2015		0	0	:		522,873	713,041	1,235,914
UDSNRD9FD	IR: NC DE Replace/Upgrade PTs Dist Subs	12/3 1/2015		0	0			78,888	38,839	117,727
UDSNRD9HD	IR: New Castle Substation Replc PCB Caps	12/31/2014	-	0	0				322,588	322,588
UDSNRD9G	Milford Crossroads T1 Transformer	12/3 1/2011					134,794	502,276		637,070
UDSNRD9RB	Madison St. Sub: Retire and Clean-Up	12/31/2011	-	0	0			84,836		84,836
UDSNRD9SDD	NC DE - Add Substation Condition Monitoring Points	5/31/2012		0	0			100,154	62,358	162,512
UDSNRD9SE	IR: Edgemoor 12kv Sub: Upgrd 12kv Bkrs	12/31/2014	-						201,553	201,553
UDSNRD9SF	IR: NC Repl Deter Switches Dist Sub	12/31/2014	-				107,986			107,986
UDSNRD9SG	Montchanin Sub Install new 34.5-12kV Xfmr.	5/31/2012		0	0			1,669,736	2,550,811	4,220,547
UDSNRD9SH	Brookside - Replace T2 34/12kv Transf	5/31/2012	-	0	0				1,160,584	1,160,584
UDSNRD9SJ	Milford Croosroads - Replace T2	5/31/2012	-	0	0				359,637	359,637

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P txtPFID txtPF Project Name	txtPFID txtPF Project Name Short Description	txtPF Project Name Short Description	F Project Name Short Description	ie Short Description			짫	50	2008	2009	2010	2011	2012	TOTAL
R RDLBIR37 Frankford: Upgrade Feeder Exit Cables				Frankford: Upgrade Feeder Exit Cables	十	12/31/2008	-	15,376	169,258					184,634
P AD47 A- Pri ZRDLBP14 Millsboro - Distribution VAR Correction	A- Pri 2RDLBP14	ZRDLBP14	ZRDLBP14	Millsboro - Distribution VAR Correction		12/31/2008		28,365	2,419					30,784
I Greenwood-Convert to 25kV & Tie to Harrington 2229	į	į	į	Greenwood-Convert to 25kV & Tie to Harrington 2229		5/31/2004	0.05	0	0					0
P Millsboro District-Dist VAR Correction				Millsboro District-Dist VAR Correction	╼╌┼	5/31/2005	1.9	0						0
I RDLBUP66 MI- Five Pts-Midway: Upgrade				MI- Five Pts-Midway: Upgrade	 +	12/31/2009	-	0	0					0
I Kent - Reconductor 13,000 feet of circuit 2233				Kent - Reconductor 13,000 feet of circuit 2233		5/31/2006	-	-342	0					-342
I Five Points - Reconductor Ckt. 528 to 1200A				Five Points - Reconductor Ckt. 528 to 1200A		5/31/2007	—	133,473	.0					133,473
I RDLBUP138 Kent-Build new 600A 25kV Circuit				Kent-Build new 600A 25kV Circuit		5/31/2006		9,800	0				:	9,800
RDLBUP142 Kent-Circuit 2228 Recloser and Regulator				Kent-Circuit 2228 Recloser and Regulator		5/31/2008	-	88,125	4,830					92,955
I RDLBUP144 Nelson Circuit 514 - Reconductor 4000 ft.				Nelson Circuit 514 - Reconductor 4000 ft.		6/15/2007	-	236,394	0					236,394
I Felton: R/C willow Grove Rd				Felton: R/C willow Grove Rd		12/31/2008	-	31,042	422,206	8,905				462,153
I Kent T1 Upgrade				Kent T1 Upgrade		5/31/2006		0	0					0
RDSBUP48 Bridgeville - Install 69/12kV, 28MVA Xfmr & upgrade feeds				Bridgeville - Install 69/12kV, 28MVA Xfmr & upgrade feed	 	5/31/2006	1.28	11,926	0				-	11,926
RDSBUP53 Midway-Rebuild 69/12kV Station				Midway-Rebuild 69/12kV Station		5/31/2005	1.03	0	.0					0
I Kent-Upgrade Circuit 2233 Terminal to Rating				Kent-Upgrade Circuit 2233 Terminal to Rating		5/31/2006	1.79	0	0					0
I RDSBUP166 Kent-Breaker/Switch Work for new 25kV Circuit				Kent-Breaker/Switch Work for new 25kV Circuit	1	5/31/2006	-	0	0	-8,651				-8,651
I BD15 TBD RDSBUP167 Magnolia Area2 30/25kV Substation-Purchase Property	TBD RDSBUP167	RDSBUP167	RDSBUP167	Magnolia Area2 30/25kV Substation-Purchase Property		5/31/2009	-	11,271	12,989	1,093,318	9,038			1,126,616
P RDLBP11 Install Distribution Capacitors for RTEP				Install Distribution Capacitors for RTEP		5/31/2009	-	132,247	43,058	-1,250	-7,595			166,461
P ND10 Pri 1 UDL.BPN7 Install Distribution Capaccitors for RTEP	Pri 1 UDLBPN7	UDLBPN7	UDLBPN7	Install Distribution Capaccitors for RTEP		5/31/2009		0	0	0	0			0
UDLBPN71 Cedar Neck to Rehoboth Distribution Relocation				Cedar Neck to Rehoboth Distribution Relocation		5/31/2008	-	0	1,078,833					1,078,833
P Millsboro-Zoar: Relocate Dist for Trans Line Work				Millsboro-Zoar: Relocate Dist for Trans Line Work		12/31/2008	-	0	151,815					151,815
P Harbeson - Lank Distribution				Harbeson - Lank Distribution		12/31/2010	-				153,279			153,279
P Bethany 138kV Sub: Install Station Service	PN79A	PN79A	PN79A	Bethany 138kV Sub: Install Station Service		12/31/2010					199,813			199,813
I Cool Springs: Install 3-Phase Service to Substation				Cool Springs: Install 3-Phase Service to Substation		12/31/2010	-				102,466			102,466
I Five Points to Lank: Relocate Distribution				Five Points to Lank: Relocate Distribution		5/31/2011	-					454,363		454,363
I UDLBPN7DD Underbuilt Distrribution Rebuilds: Bay DE	OU7DD	OU7DD	OU7DD	Underbuilt Distrribution Rebuilds: Bay DE		5/31/2011							2,051	2,051
UDSBPN79A Bethany - Establish 138/12kV 50MVA Transformer				Bethany - Establish 138/12kV 50MVA Transformer		5/31/2010		0	0	312,022	3,957,402	-		4,269,424
						5,376.7.2.50								3,803,289 OK
	A. Dr. STIDI DI M7M 17			Milliam 2027: Facility and Company	4									NO N
-	M- FII JUDEBEM/M.1/			Millsboro 2.2.11: Install Reclosers		5/31/2009	_	0	0					0

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Five Points/Midway/Rehoboth-R/C Feeder Sections to 1200/		Rehoboth: DE0519 - Reconductor Feeder			Nr Seaford DE0517: R/C 0.25 miles of Feeder	Laurel DE0507: R/C 0.5 miles of Feeder	Sussex DE0525: Reconductor with 477 AAC	N. Seaford DE0516 Extend B Phase Along Woodpecker Rd	North Seaford DE0517: Extend A-Phase	Bridgeville T1: Create New Feeder DE0518	Five Points DE0530: Install Reclosers & Replace Regulator							Magnolia Area 230/25kV Subsation-Transmission Line		Install Capacitors - Christiana District	Irishtown / 0337: Extend Circuit	Christiana - Distribution VAR Correction	Hockessin Sub: Relocate 12 kV Feeders	Hares Corner: Install 5th 12 kV Circuit	Mt. Pleasant / 2541: Reconductor Bohemia Mill Rd with 1/0	Glasgow circuit 3324 extension - Pulaski Hwy	Milford Xrd's / 293: Transfer 1.5 MVA to New Line from NE	Hares Corner: Install 6th 12kV Circuit	Silverside Ckt. 274 - Reconductor Bottle Neck at Graylyn Cr
A- Pri ZUDLBLM7M.18		UDLBLM7M.20			UDLBLM7M.23	UDLBLM7M.24	UDLBLM7M.3	UDLBLM7M.30	UDLBLM7M.31	A- Pri 2UDLBLM7M.4	A- Pri 4UDLBLM7M.5						;	UTLBLMG1		RDLNMS15	RDLNNL7	RDLNP12	oung,M. RDLNUP35	RDLNUP37	RDLNUP38	RDLNUP58	RDLNUP59	RDLNUP75	RDLNUP77
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Mt. Pleasant, Reconductor 3 miles of circuit 2541	Townsend / 2511: Reconductor a portion with 477 AAC	Keeney Third 12kV Circuit	Sunset Lake - New 25kV Circuit	Rising Sun / 357: Reconductor Biggs Hgwy with 477 AAC	West Circuit 149: Reconductor Water St. Newport	Harmony / 3354: Reconductor and Parallel 3-1c 750 Cu	Keeney / 3314: Install New 34/12kV Padmount and 12kV Lin	New Castle Sub 167/169: transfers and Upgrades for Overloa	Kiamensi - Upgrade T2	Hockessin Sub: Install 2nd 138/12 kV Xfmr & 138 kV terning	Mt. Pleasant 25kV breaker for 3rd circuit	Valley Road 138-12kV Substation	Sunset Lake New 138/25kV 40MVA Transformer	Install Distribution Capacitors for RTEP	Install Distribution Capacitors for RTEP	Red Lion: Dist Work for Sta Serv	Dist Line Work for Brandywine Sub Expansion	Dist Line Work for Harmony Sub Expansion	Brandywine Sub - Add a 2nd Stage 5.4 MVAR 12kV cap	ROWING TOWNS OF UNSTRUCE OF THE PROPERTY OF TH			Cedar Creek 2nd 25kV Circuit	Darley Rd 34kV: Upgrade Circuit DE3333 (R)	Mt Pleasant DE2541: Transfer Load from 2542	Townsend DE2512: Upgrade Step-down Transformer	Cedar Creek DE2500: R/C Black Diamond Road		Silverside Rd 34kV: Upgrade DE3332	Silverside DE0273 - R/C approx. 500 Ft. Cable
RDLNUP78	RDLNUP149	RDLNUP200	RDLNUP201	RDLNUP204	RDLNUP216	RDLNUP220	RDL NUP225	RDLNUP239	RDSNUP19	ND7 pung,MRDSNUP39	RDSNUP72	RDSNUP96	RDSNUP108	RDLNP11	ND10 Pri 1 UDLNPN7	UDLNPRLI	UDLNPBCI	UDLNPHRI	UDSNPN7		NDIO Pri I I I I I I I I I I I I I I I I I I I	ND7 bung, Mike II	UDENEM7C.12	UDLNLM7C.13	ND10 Pri 1 UDLNLM7C.14	ND10 Pri 1 UDLNLM7C.15	ND10 Pri 1 UDLNLM7C.16	NDIO Pri I	UDL'NLM7C.5	AD48 A- Pri JUDLNLM7C.6
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Cedar Creek DE2500: Feeder Reconfiguration	Edgemoor Plant: Transfer DE0202 & DE0218 to T6 138/12k	Naamans DE0280; R/C 100ft of 1/0 ALURD_15 Cable	Mt. Pleasant Sub: Move Feeder 2542 to new 138/25kV Trans		Cedar Creek: Add 25kV Breaker for 2nd Circuit	Edgemoor Switchyard: Install New 69/12kV transformer		Mt. Pleasant Sub: Add 2nd 138/25kV Transformer																·	
Cedar	Edgen	Naam	Mt. PI	2 (1) (1)	Cedar	Edgen		Mt. Pl											·						
A- Pri ZUDLNLM7C.7	A- Pri 2 UDLNLM7C.8	A- Pri 2 UDLNLM7C.9	UDLNLMP1		UDSNLM78D	UDSNLM78E	ung,Mike a transfer	UDSNLMP1			·						4								,
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<u>Actual Dollars</u>	2013 (\$)	12,279	0	0	26,427	199,555	676,380	222,900	0		41,387		480,373	131,960	25,300	1,101,482	374,193	116,153	3,408,389	
	Region	Bay	Вау	Вау	New Castle	New Castle-	New Castle	New Castle-	New Castle	New Castle	Bay	Bay	Bay	Bay	r Care					
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Budget Type of	FERC Area Category Project	Distributior Customer Drive Line	Distributior Customer Drive Line	Distributior Customer Drive Substation	Distributior Customer Drive Line															
	<u>Items</u> <u>Project ID</u>	Bay DE - Repli UDLBCMVD	Bay DE Transr UDLBCSOLD	Bay Region De UDSBCSOLD	Christiana - Fa UDLNCS3C	Christiana - Hi UDLNCH0C	Christiana - Ne UDLNCS1C	Christiana - Re UDLNCS2C	DE - NEW LOJ UDLNCACRD	DPL Reg: New UDLNCACCR	Mercury Vapor UDLNCMVD	Meter Blanket UDLNCMR2	Meter Blanket · UDLNCMR2D	Meter Blanket · UDLNCMR1	MI- Facility Rel UDLBCS3M	MI- New Servic UDLBCS1M	Millsboro - Higl UDLBCH0M	MI-Residential UDLBCS2M		

Bear DE0752: UDLNLM7C.11 Distribution	Distributior Load Driven	Line	DE	New Castle-	
Underbuilt Dist UDLBPN7DD	Distributior PJM/RTEP	Line	DE	Bay	22,831
			100		
CHRISTIANA I UDLNLM7C	Distributior Load Driven	Line		New Castle	0
CHRISTIANA - UDLNLM7C.10	Distributior Load Driven	Line		New Castle-	
MERMAID DE(UDLNLM7C.17	Distributior Load Driven	Line	띰	New Castir -	
Install Dist. Re UDLNLM7C.2	Distributior Load Driven	Line	띰	New Castle-	
Distribution Lin UDLNPBC1	Distributior PJM/RTEP	Line	出	New Castle	86,238
Brandwine to EUDLNPBC2	Distributior PJM/RTEP	Line	凹	New Castle	2,866
Cedar Neck St UDSBLM76A	Distributior Load Driven	Substation	DE	Bay	
Future Projects UDSBLM7D	Distributior Load Driven	Substation		Bay -	
Magnolia Area UDSBLMG2	Distributior Load Driven	Substation	DE	Bay -	
Midway Substa UDSBLMW1	Distributior Load Driven	Substation	DE	Bay .	

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NC-DE Future UDSNLM7D		12kV ACB Ref UDSNRD9K	BAYDERemov UDLBMS5D	Bay DE Reg: S UDLBOSV5DE	BAY-DE - Acci UDLBRACRD	Distribution Au UDLBRDA1D	Emergency Re UDLBRM3M1	Millsboro Misc. UDLBRM4MA	Millsboro Distri UDLBRM4ME		Millsboro Aviar OULBRINGING	Coston Doll 101 pondann	Millsboro - Pac UDLBRM4MO	Millsboro - Upc UDLBRM4MQ	Bishop Substa UDLBRM4RC	\sim	IR: Millsboro - UDLBRM5MZ	NERC Line Up UDLBRM5ND	Distribution Tr UDLNMS3D	NC DE Remov UDLNMS5D		NC-DE - Accru UDLNRACRD	Emergency Re UDLINKIMSC I	Misc. Improver UDLNRM4CA	Christiana Dist UDLNRM4CE	Christian Avist In NOMACU	Dooley Line FIIDI NDM4C	Copieto Cine 1 OF NOMACM	Christiana: Pay LIDI NRM4CIVI	Christiana: Up. UDLNRM4CO	Wilminoton Ne UDI NRM4CR	Install tree wire UDLNRM4CU

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PSC DOCKET NO. 13-115 DELAWARE PUBLIC SERVICE COMMISSION STAFF FOLLOW UP SET OF RELIABILITY DATA REQUESTS TO DELMARVA POWER & LIGHT COMPANY

Question No.: PSC-REL-7

Please provide a copy of the Reliability Enhancement Plan (REP) for (a) PHI, (b) total Delmarva and(c) Delmarva Delaware that was in effect and provided the framework for the company's analysis and selection of the 2012 and 2013 REP projects listed in Attachment A to AG-REL-3.

RESPONSE

- (a) REPs are developed for each individual utility, not at the holding company level.
- (b) Delmarva objects to use of the Maryland REP on the grounds that it is irrelevant. Without waiving any objections, see PSC-REL-7 Attachment.
- (c) AG-REL-3 Attachment A defines the REP in Delmarva's Delaware Reliability Enhancement Plan.

PSC DOCKET NO. 13-115 DELAWARE PUBLIC SERVICE COMMISSION STAFF FOLLOW UP SET OF RELIABILITY DATA REQUESTS TO DELMARVA POWER & LIGHT COMPANY

Question No.: PSC-REL-10

Please refer to the lists of "REP" projects in AG-REL-3 Attachment A and "non-REP" projects in AG-REL-3 Attachment B. Many projects on the non-REP list have descriptions similar to those on the REP list (e.g., distribution automation, URD cable replacement, priority circuit improvement).

- (a) Please clarify what factors and criteria the company uses to designate which of seemingly similar project types should be considered REP versus non-REP.
- (b) Which projects on the 2012 REP project list would otherwise be performed as a non-REP project in a future year?
- (c) Please explain how the company capital project identification, analysis and planning processes differ in order to separately distinguish projects considered to be REP versus non-REP.
- (d) Please describe the criteria used to select candidates for each project group (e.g., URD) and the process and values used to create the cutoff point each year.
- (e) Please describe the follow-up process used to determine if the expected reliability improvement by each project was achieved.
- (f) Please provide any analysis of the original estimated cost versus actual costs for REP and non-REP projects.

RESPONSE:

- a. See response to PSC- REL-8 a.
- b. None.
- c. See response to PSC-REL-8 b.
- d. See response to AG-REL-65,
- e. Delmarva tracks its monthly reliability performance to determine if reliability improvements have been achieved. See AG-REL-19 Attachments A-D.
- f. See AG-GEN-1 Attachments A and C.

PSC DOCKET NO. 13-115 DELAWARE PUBLIC SERVICE COMMISSION STAFF FOLLOW UP SET OF RELIABILITY DATA REQUESTS TO DELMARVA POWER & LIGHT COMPANY

Question No.: PSC-REL-29

PHI filed a report with the Maryland Public Service Commission in Case No. 9298 titled "Short Term Enhancement Plans for Potomac Electric Power Company and Delmarva Power & Light Company and Comments on the Recommendations on the Report of the Grid Resiliency Task Force," dated May 31, 2013. Please provide documents or analyses that similarly delineate the same issues in that report but for Delmarva's Delaware territory.

RESPONSE:

The requested analysis has not been performed.